Continental Business Center (aka Bridegeport Industrial Park) Fire CERCLA Emergency Response Bridgeport, Montgomery County, PA

RECORD OF USEPA ACTIVITIES "OSC RECORD"

BACKGROUND: A fire began in the Continental Business Center complex in Bridgeport, Montgomery County, PA, during the early afternoon of 15 May 01. The complex is located at Front & Ford Streets in Bridgeport along the Schuylkill River. A significant number of businesses and the contents of their buildings were lost. Although the fire was under control at 0330 on 16 May 01, a large area was still smouldering or subject to flare-ups after that time. Included in the smouldering and flare-up areas were a warehouse where a variety of chemicals were stored, 2 locations where large amounts of automobile and related auto maintenance supplies were stored, and several other smaller/limited areas where potentially hazardous or oily materials were stored.

The business complex is constructed within the buildings of an industrial facility that formerly manufactured a variety of fibres; Continental Diamond Fibre Company.

The OSC was initially requested on 16 May 01 to evaluate available information and provide assistance to Local Fire and Emergency Services officials regarding chemicals stored within the burning/smouldering buildings. Subsequently, the OSC was requested to provide air monitoring support and overall assistance regarding protection of environment from releases of oily material and hazardous substances resulting from necessary fire fighting runoff waters passing through the structures and facility and entering the Schuylkill River and a canal which runs beneath the business park. EPA was also requested to provide for Site Safety.

After the OSC identified chemicals and hazardous substances stored in the MCC Warehousing area and the oily materials stored in the George's Auto Supply area, which were both still engaged in fire suppression efforts, the OSC requested the continued support of the Bridgeport Fire Departments to ensure that chemicals engaged in fire could be safely addressed. Bridgeport continued fire suppression efforts and ultimately continued to leave hose and nozzle equipment on the Site for use in mitigating the emergency condition posed by uncontrolled chemical release and oily material discharge and severely compromised containers and structures securing these chemical and oily materials.

Figures developed or obtained during the course of the incident response are contained in **APPENDIX 1**. A list of appendices and figures and tables is contained on the following page.

The following pages contain daily summaries of the activities of the OSC and the OSC's resources.

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Federal On-Scene Coordinator

01 June 01

LIST OF APPENDICES and TABLES

TABLE 1 TABLE 2 TABLE 3 TABLE 4 TABLE 5 TABLE 6		Support for Air Monitoring Parameters Chemical Information - Durr EPA Analytical Data and Criteria Chemical Information - Bruggemann PADEP Analytical Data Chemical Information - Pentachem	page 4 page 11 page 18 page 22/23 page 25 page 29			
APPENDIX	1	Site Figures				
		Complex Building Layout and Business Lists (provided by owner)				
	MCC	MCC Sketch Map (provided by MCC Warehousing owner)				
	MCC	MCC Basement Sketch Map (provided by USCG-AST)				
	Site Layout/Drainage Map (provided by Tetra Tech)					
APPENDIX	2	Possible MCC Warehousing inc Inventory I	ist			
APPENDIX	3	Actual MCC Warehousing inc Inventory (m	ain clients)			
APPENDIX	4	Water Containment Strategies				
APPENDIX	5	EPA Analytical Data: canal sample- 5/18/01				
APPENDIX	6	Philadelphia Water Department Analytical I	Data			
APPENDIX	. 7	PADEP Analytical Data: canal and river san	nples			
APPENDIX	8	J Building Basement Water Sample				
APPENDIX	9	Assessment Document				
APPENDIX	10	EPA Safety Memo				
APPENDIX	11	POLREPS				
APPENDIX	12	Air Monitoring Log				
APPENDIX	13	Table of Inventory Chemicals and Decompo	sition Products			
APPENDIX	14	Notes of Owner Environmental Files				
APPENDIX	15	Photodocuments				
		파 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그				

16 MAY 01 - Wednesday

SIGNIFICANT ISSUES

The Borough of Bridgeport Fire Chief is the Incident Commander. The EPA OSC is coordinating with the Montgomery County Emergency Services Director to deal with environmental issues. The OSC is also coordinating with PADEP representatives at the scene and in Regional Office.

See POLREP 01 for additional information.

DAILY PLAN

Survey and assess overall situation and environmental issues
Obtain and review available MSDS
Interview owner representatives regarding potential chemicals within the complex
Evaluate need to implement air monitoring

- (1) After dispatch, the OSC met with Jim Kelly, Montgomery County Emergency Services Director, to survey overall situation, meet Site personnel, and gain access to available MSDS. The OSC informed the Incident Commander (Bridgeport Fire) that he was onsite.
- (2) OSC met with the owner of the complex and staff to gain access to Site layout information and verbal information regarding the type of businesses in the complex and potential materials stored at each location. Businesses included a warehouse where a variety of chemicals were stored (MCC warehousing, inc. located in M building), two locations where a variety of oils and related automobile maintenance supplies were stored (George's Auto Supply located in M and C buildings), a small lawn maintenance business with possible pesticide chemicals, a business that provides coatings (Jet-Hot), a tool and machine shop, a furniture restoration business with possible strippers in vats/tubs, printer and label businesses with inks and related chemicals. There were also a variety of other businesses with possible small amounts of general maintenance chemicals. The OSC was given a map of the complex and a list of businesses (APPENDIX). The OSC determined that the chemical storage warehouse and the auto supply locations posed the most threat to human health and the environment based upon the probable type and amount of chemicals within these buildings, the locations of these businesses near drains to the River, the current discharge of these materials to waterways (and possibly to air)and the current stage of fire-fighting efforts. The incident posed immediate threat to human health and the environment.
- (3) The OSC contacted the EPA Regional Office and received information about a previous assessment of the warehouse location (MCC Warehousing, inc.) within the complex. The OSC learned that a variety of chemicals were stored and that caprolactam was among the chemicals stored in larger quantities. Caprolactam is a combustible and corrosive organic compound, toxic by inhalation, and soluble in water and petroleum distillate.
- (4) OSC met with PADEP representatives on Site and received update regarding efforts to contain oily material running from the Site. Oily material enters the River through storm drains on the Site. Oily material is contained on the Schuylkill River with several areas of containment boom, absorbent boom, and absorbent pads. Lewis Environmental (hired by the owner Bushar Corp.) has several boats onsite to tend and rehabilitate boom. Oily material is also entering a canal that runs under the business complex. The canal enters the River downstream of the Site. Boom is also present in the canal. Contained oily material is removed by vacuum trucks and brought to the business complex for storage in tanks.

- (5) OSC met with PEMA and Montgomery County Emergency Serv ices. OSC reviewed available MSDS and chemical inventory information available for the warehouse location (MCC Warehousing, inc.) within the complex. PADEP waste management personnel were also reviewing these files. The inventories were not up to date. The OSC determined that the inventories were appropriate for possible considerations for chemicals in the warehouse (e.g., a "list of possibilities") and for development of an air monitoring list, but that additional information would be needed from the owner of the warehouse business or from the clients of the warehouse. The main chemicals in the warehouse area appeared to be pigments, dyes, and chemicals used in the manufacture of plastics, synthetic fibers, and pigment or dyeing industry. According to available information, onsite facilities may not have been required to file Right-to-Know information with outside agencies.
- (6) The OSC contacted PADEP to discuss the need for air monitoring. PADEP intended to rely on the air monitoring information from Norristown. The OSC determined that air monitoring should be accomplished based upon smoke and odor in downtown areas. A plan was developed to enhance PADEP efforts and to monitor only for specific parameters after a screening process identified particular chemicals of concern in the warehouse. An analysis of every chemical was not conducted due to 1) the large amount of possible chemicals, 2) the urgency of the situation, 3) the probability that organic compounds were likely completely burned in the hot fire and degraded to normal oxides of carbon and nitrogen characteristic of most structure fires, 4) the probability that several possible chemical breakdown products would also emanate from a routine structure fire and not be indicative of particularly dangerous conditions, 5) the fact that many of the chemicals were inorganic and would not readily burn, and 6) the need for a definitive plan to determine if chemical emissions were indeed an item of concern. The OSC took the lead for air monitoring. The OSC was concerned about potential increases in chemical emissions as the heat of the fire decreased and combustion of organic compounds was no longer complete.
- (7) The OSC requested that PADEP contact Montgomery County Health Department to relay information regarding the fire and possible chemical release.
- (8) The owner of the warehouse and the warehouse business were contacted and requested to meet with the OSC and PADEP on 17 May 01. The OSC would relay concerns about the warehouse to the owner and operator of the warehouse and the complex. After the meetings, the OSC would evaluate the need for enforcement actions.
- (9)The OSC met with PADEP and evaluated oily material containment and recovery operations. The oily material likely contains a variety of chemical substances originating from the Site based upon initial review of MSDS and observations of the likely business operations within the complex. Two locations within the overall complex stored large quantities of oils (automobile supply), but the discharges likely mingled with non-oil discharges from other areas of the Site. The oily material containment and recovery operations were effectively containing and recovering oily material discharged from the fire fighting operations. The OSC determined that no additional operations were practical and/or required at this time to further protect navigable waters from the oily discharge. The OSC would continue to monitor the containment and recovery efforts. The oily material containment and recovery operations are conducted by Lewis Environmental for the complex owner (Bushar Corp.). The mixing of oily and chemical substances likely negates the ability to use OPA authorities.
- (10)The OSC obtained the services of chemists (START contractor and EPA CEPP personnel) to review available chemical information consisting of the possible inventories within the MCC location. The inventories represented the universe of possible chemicals that could be within the warehouse although quantity information was not available (APPENDIX 2). Due to the need to conduct air monitoring and determine if hazardous constituents could exist in the smoke emission as the fire temperatures began to subside, the OSC proceeded with the evaluation in the absence of definitive inventory information.
- (11) Based upon the chemist and the OSC review of possible chemicals within the warehouse location a listing was developed of chemicals that may pose a potential threat to human health or the environment based upon their toxicity or potential emission/degradation in the fire. These chemicals of potential concern are identified by associated

notations on the possible inventory sheets. Once this screening was conducted, the chemists examined available MSDS for these chemicals of potential concern. The examination focused on the potential amount of this chemical in the fire based upon the percentage existing in the products, the number of products that contained the chemical, and a quick review of potential breakdown or degradation products. The MSDS review generated a list of chemicals of potential concern (identified in APPENDIX 2). The OSC acknowledged that the list may not be comprehensive. Amine compounds were a potential release concern in the runoff. Since the pH would rise in this situation, the runoff liquids would be analyzed; if pH began to rise above 8, the level of concern about contaminated runoff would increase.

- (12) Command officials (Montgomery County Emergency Services and Bridgeport Fire) met with the OSC to receive initial information regarding possible chemical inventories and potentially hazardous chemicals that did not completely burn off in the fire. This meeting resulted in the initiation of air monitoring as a task for the OSC. The OSC determined that discussion with ATSDR would occur before the list of parameters would be finalized.
- (13) The OSC met with Bridgeport Fire to relay available chemical information. Bridgeport Fire was directing Site Safety.
- (14) The OSC was requested to attend a media briefing at 1530 hrs. The OSC requested CIC support from the Regional Office. The OSC met with PADEP spokesperson already onsite prior to this meeting and relayed all EPA information so that PADEP could be the point of contact for environmental issues. PADEP took the lead for environmental information during this briefing. EPA CIC recorded information and met with media during the evening.
- (15) Demolition contractors onsite this day to assist fire suppression efforts. The contractors (Schultz Demolition and Domino Salvage) were assisting the Borough of Bridgeport. The OSC advised that demolition in contaminated areas or areas structurally connected with the MCC warehouse be coordinated through the OSC to avoid unnecessary chemical releases.
- (16) The OSC contacted ATSDR and discussed the chemicals of potential concern. The OSC needed to know how these chemicals might react in a fire and what their degradation products might be. The discussion resulted in the identification of several monitoring parameters useful to distinguish possible chemical emission from parameters that could emanate from a routine structure fire or parameters that are not particularly dangerous. ATSDR also advised on PPE when working in the chemicals. The list of potential degradation products included amines, ammonia, HCN, HCL, and oxides of N, C, and P. The OSC determined, based upon consultation with ATSDR, that amines, ammonia, HCN, and HCL would be initially monitored to determine if the emission contained significant levels of contaminant. The information supporting the air monitoring list follows. The list is not a complete representation of the discussion between the OSC and ATSDR since other chemical degradations would require the same monitoring parameters.

Sample Information Supporting Specific Initial Air Monitoring and Need for PPE and Containment

CHEMICAL

EFFECT and MONITORING PARAMETER

Caprolactam

corrosive, poss.CNS, pulmonary effect, HCN

TABLE

polyamine (amines)

NH₃ compounds, irritant

isocyanates

HCN

N,N -diphenyl -1,4, Phenylenediamine +

HCN (low), NH₃

Phosphonic acid salts

oxides of phosphorus, weak acid, pulmonary effects

Formaldehyde

dermal irritant, fish kill potential, sensitizer

1-methyl-3,5,7, - triaza-1-azoniatricyclodecane

possible HCL

2-(thiocyanomethylthio) benzothiazole

possible HCN

- (17) The OSC contacted START contractor (Tetra Tech) this night and directed air monitoring be conducted overnight. Areas were to include downwind/downtown areas. Locations along Fourth St., Depot St., Front St., and Mill St. were to be monitored.
- (18) Oil containment and recovery operations continue for 24 hour periods until further notice.

17 MAY 01 - Thursday

SIGNIFICANT ISSUES

Analytical results of runoff water entering the canal and the River collected by PADEP will not be available until the end of next week. Additional information will be needed to determine if additional measures will be necessary to contain or otherwise control runoff waters from the contaminated areas, especially MCC Warehousing, inc. where discharges could be more likely to be soluble in water. The efforts to date focus on the floating layer of runoff water (oily layer). Based upon initial review of the chemicals and products involved in the fire, it is likely that many of the organic contaminants will reside in the oily layer, but some of the potential solvents and inorganic contaminants will not be removed in the oily layer. The OSC has directed that the START contractor (Tetra Tech) collect a sample of the runoff water in the canal and analyze those samples for a variety of organic and inorganic parameters. The analytical results will enable the OSC to determine if additional containment measures or operational procedures are warranted.

Air monitoring was conducted during the overnight period of 16/17 May. The monitoring results do not indicate specific chemical degradation products in downtown/downwind areas. The need for continued air monitoring will be discussed this day with pertinent personnel. Monitored parameters include amines, ammonia, HCN, and HCL. Air monitoring was initiated on the Site this day. In addition to the afore-mentioned parameters, volatile organic compounds were also monitored. The OSC also requested monitoring for total particulate matter due to the presence of the large amount of inorganics. Negligible levels of VOCs were detected on Site. All downwind/off-Site areas continued to indicate no presence of chemical emission.

The burned and collapsed condition of the MCC Warehousing area allowed for no protection or containment of chemicals stored within. Additionally, many of the chemicals were stored in combustible materials (e.g., plastic drums, bags, boxes, etc.) such that the chemicals were no longer contained in their packaging. The resulting situation caused a mixture of a variety of materials in a building that could no longer contain their release. These resulted in a threat to the public health and the environment should unforeseen circumstances cause release or fire continued the ongoing release. Additionally, the appearance of the waterways and the condition of the buildings suggested that chemical release was ongoing to the environment. Immediate action was necessary to stabilize this situation.

Fire suppression operations continued this day as small fires, hot areas, flare-ups, and smouldering debris existed throughout the Site. Night crews reported that several drums within the MCC Warehousing facility ignited during the night. Foam was used this day in the George's Auto Supply location of C building. Demolition operations this day occurred in the J building area where unstable high walls continued to limit effective access to all smouldering areas and posed a threat to adjacent operations.

Oily material containment and recovery operations continue this day with boom, recovery, and vacuum operations continuing on the Schuylkill River and canal. The collection point on the canal is at the location where the canal enters

the River. Oily material is not visible downstream of the final boom on the River.

Local and State fire investigators along with the ATF initiated investigation of fire cause in the C building where the fire started.

The Borough of Bridgeport Fire Chief is the Incident Commander. Bridgeport, EPA (and PADEP), Montgomery County Emergency Services, and the owner representative (variable) formed Unified Command. The OSC, PADEP, and the owner address all environmental issues. This Command coordinated with fire investigation operations and fire suppression operations through the Bridgeport Fire Chief (Incident Commander). The OSC (and PADEP) will direct environmental operations through the owner's contractor representatives. The OSC (and PADEP) and START (Tetra Tech) conduct planning activities. Bridgeport maintains the Safety Officer and Information Officer functions. Bridgeport police maintain Sitesecurity.

See POLREP 02 for additional information.

DAILY PLAN

Continue with more detailed evaluation of information about chemical warehouse location Develop strategy for addressing immediate threat conditions in MCC Warehousing Evaluate air monitoring information and recommend future actions Gather more information about the history of the facility Continue containment and recovery of oily material operations Continue air monitoring Evaluate/Advise on Site Safety Initiate development of strategy to address overall Site environmental characterization

- (1) This day a Unified Command was established to address environmental issues at the Site. The Command participants include OSC (and PADEP), Montgomery County Emergency Services, Bridgeport Fire, and available representative of the owner. At a 1000 meeting, the OSC advised and Command agreed to continue and expand air monitoring to include the perimeter of the Site and operational areas.
- (2) The OSC and PADEP met with the owner of the warehouse business in which a variety of chemicals were stored. The purpose of the meeting was to obtain, if possible, information about the amount and location of chemicals within the warehouse. The owner was able to provide a sketch map of the approximate location where various clients stored their materials (see Appendix 1). The owner also agreed to request specific inventory information from his three main clients identified by the OSC and forward that information to the OSC and PADEP by requesting his clients to contact the OSC or PADEP. The OSC informed the owner that the warehouse location would likely require emergency stabilization actions to protect public health and the environment.
- (3) The OSC was contacted by three main clients of the warehouse (Durr Marketing Associates, Pentachem, inc., and Bruggemann Chemical US Inc.). Each of these companies agreed to supply a current inventory of chemicals as quickly as possible. The information will be sent to the PADEP offices in Conshohocken due to its proximity to the Site. The Durr representative informed the OSC of the existence of approximately 50,000 pounds of lead in various pigments in the warehouse and requested to be present when these materials were removed.
- (4) The OSC informed the owner of the complex about the need for emergency stabilization actions at the chemical warehouse location. The complex owner agreed to take steps to initiate these actions.

- (5) EPA START contractor (Tetra Tech) initiated routine air monitoring this day around the Site perimeter. Monitoring results do not indicate significant chemical release. Monitoring will continue to ensure the protection of the nearby residential and commercial community.
- (6) The OSC and PADEP and Montgomery County Emergency Services met this day to determine an overall strategy for dealing with the immediate stabilization of the MCC Warehousing inc. facility. The strategy and needs were communicated to the owner. The basic strategy developed called for demolition of unsafe areas to allow for removal of unsecured chemicals. The removal of bulk chemicals to a secure staging area would mitigate the emergency condition. The Strategy for immediate operations did not include cleanup of all chemicals.
- (7) The OSC and PADEP met with representatives of the owner at the MCC Warehousing, inc. location at 1445 hrs. this day. The OSC informed the parties that an emergency stabilization action was required to protect public health and the environment. The action was to include activities to remove the unsecured chemicals (burned drums, totes, bags, pallets, etc.,) from the unsecured building (burned and partially collapsed) such that chemicals do not migrate into the canal and River at excessive levels. Additionally, since the location and the quantity of specific chemicals was unknown and portions of the building were still burning/smouldering, the MCC Warehousing, inc. location posed an immediate threat to human health. The OSC advised of the probable need to demolish structures while removing chemicals to secure locations. The OSC advised that the request was for immediate stabilization (not complete cleanup) of the location. The owner's representatives agreed to have contractors onsite next day.
- (8) The OSC inspected the canal location where heavy oily material continues to be recovered. The containment remains effective. Discharge from the canal enters the Schuylkill River. The contractor has additional boom and absorbent capacity at this and downstream locations.
- (9) The OSC met with Bridgeport Fire about Site Safety (Site Safety Officer Gallagher) and forwarded the advice of ATSDR regarding PPE when working with the chemicals. Since many of the chemicals are dermal and respiratory irritants, butyl rubber or neoprene gloves are recommended along with Level C (minimum) and Level B (dependent upon air monitoring) respiratory protection.
- (10) Montgomery County requested copies of actual inventory information received by EPA.
- (11) OSC discussed Site situation with Federal Natural Resource Trustees. USFWS (Roberts) to receive future information about potential damages.
- (12) OSC discussed Site/incident information release this day with PADEP and EPA Regional Office. Based upon significant economic loss and ongoing fire investigation. Environmental issues have not been of particular interest to the media and public; although media interest continues to be high. The OSC requested that EPA and PADEP Offices coordinate release of information from home office and enable Bridgeport to handle information release at Site. The OSC will advise Regional EPA Office of increased interest in environmental information. A joint information center is not established.
- (13) PADEP requested an underflow structure between the C building and the Schuylkill River based upon the continual release of oily material to the River via overland flow at the location of George Auto Supply. PADEP maintained the lead for oily containment and recovery operations.
- (14) The OSC initiated collection of information necessary to characterize overall environmental situation at the overall complex. The START contractor was requested to begin to characterize and document known drainage. This effort will begin in earnest after completion of fire investigation activities (due to current inability to access fire cause investigation area).

18 MAY 01 - Friday

SIGNIFICANT ISSUES

Unified Command meeting this day resulted in EPA assumption of Site Safety Officer responsibilities. EPA will develop and implement, among other things, a Safety Plan that enables fire investigators and fire suppression personnel to be confident they are protected from Site chemical hazards. The OSC requested assistance from the US Coast Guard Atlantic Strike Team in this matter. The OSC also requested the EPA Mobile Command Post to facilitate Unified Command activities.

Pressurized aerosol containers in the George Auto Supply location of M building ignited this day. Fire suppression activities focused on spreading remaining aerosol cans and pressurized containers. When fire was not evident, volatile organic compound concentration levels increased in the downwind air. Unified Command decisions were made to allow the fire to burn to reduce available fuel in this area. A fog spray was set up to keep this area cool and wet during the night.

Lewis Environmental reports that anchors on the booms periodically slip downriver. The bottom of the River is not well suited to anchoring devices. The contractor advises that if boom were to be re-anchored, a good deal of the oily material now trapped in the cradle of the boom would be lost. Although the OSC witnessed oily sheen downriver this day, efforts will focus on removing oily material from the boom rather than immediate repositioning efforts. A noticeable decrease in oily runoff is observed due to decreased fire-fighting efforts.

Air monitoring continued this day and was also conducted at a building in Norristown where employees reported feeling ill. Norristown was downwind of the fire scene this day. The EPA air monitoring did not identify increased contaminant levels; although smoke was evident.

Fire suppression efforts continued throughout this day

Local, State, and Federal fire cause investigation personnel continue to work at the C building.

See POLREP 03 for additional information.

DAILY PLAN

Characterize runoff water from the canal
Develop and Implement Site Safety Plan, including continued air monitoring
Characterize Site drainage pathways
Coordinate initiation of stabilization operations at MCC Warehousing
Continue containment and recovery of oily material

- (1) contractors were onsite this day (0800) to view the MCC Warehousing location and submit proposals to the owner to conduct stabilization activities. The OSC learned from the owner that he indeed intended to conduct stabilization activities.
- (2) START contractor (Tetra Tech) collects a sample of runoff water from the canal. The results are expected 21 May 01. The sample will be analyzed for a wide variety of parameters. The results will be used to better evaluate and decide upon the tactics to control offsite drainage of fire-fighting water and precipitation runoff. The collapsed condition of many of the structures will enable precipitation to facilitate migration of contaminants directly into the canal and River.

Fire-fighting runoff continues to run uncontrolled into the canal and River; absorbents are used to remove oily material.

- (3) Air monitoring this day continues to show negligible concentrations of chemicals in Site emissions.
- (4) EPA START contractor (Tetra Tech) conducted air monitoring at a building in Norristown located downwind of the Site. Employees of the building reported feeling ill this day. The EPA monitoring effort did not indicate elevated concentrations of chemicals believed to be derived from the incident.
- (5) Regional management onsite this day.
- (6) The OSC and PADEP received and reviewed an old print (layout) of the former Continental Diamond Fibre Company facility prior to its development into the current Continental Center business park. The Continental Diamond Fibre Company period of operation at this location is unknown. This figure was used to identify basement areas and other potential areas of concern. The OSC met with the owner to further identify basement areas and how they might drain. Drainage in the M building cannot be definitively identified. J building basement drainage occurs through at least one 24 inch pipe according to the owner representative.
- (7) The OSC, USCG-AST, Montgomery County Emergency Services, PADEP, and Bridgeport officials surveyed the River bank this day to observe Site drainage, runoff areas, and oily material containment and recovery operations. Oily sheen was observed down river of the final boom and determined to result from increased amount of oily pads in the cradle of the boom. OSC advised that these pads be changed or removed. The absorbent material in the booms will have to be removed first. The contractor reports that the boom anchors periodically slip.
- (8) The OSC contacted the Montgomery County Health Department regarding the current health advisory posted by the Department. The Department requested whether they could lift the advisory. The OSC informed the Department that if the advisory was based upon smoke alone or smoke from a large structure fire, then the Department should consider keeping or lifting the advisory based upon standard operating procedures. If the advisory is based upon chemicals, then the OSC advises that the Department could lift its advisory.
- (9) The OSC provided Local Government Reimbursement information to the Montgomery County Emergency Services director. The Fire Departments and HazMat Teams have spent a considerable amount of resources and equipment to address this incident. Included, are significant resources and equipment to initially keep fire from the chemical and oily material storage areas, then to help OSC reduce fire in these areas to enable proper environmental stabilization.
- (10) The OSC and PADEP met with the Site owner and his representatives regarding strategy for stabilization of the MCC Warehousing location. The owner indicated that he is now selecting a contractor to conduct this work and expects them onsite tomorrow (19 May 01). The OSC requested that the contractor meet with PADEP and OSC to receive available chemical information.
- (11) START identified locations of visible storm drains.

19 MAY 01 - Saturday

SIGNIFICANT ISSUES

Fire cause investigation effort was completed this day at the Site. The investigators demobilized at approximately 1600 hrs. Site security responsibility was transferred to the Site owner which hired a security service.

Fire suppression activities this day focused on an area within the J building basement which has ignited large wooden timbers and the area of C building near the Auto Supply building. After completion of the fire cause investigation, ground crews went through the C buildings and addressed hot spots by raking or otherwise moving smouldering remains. The basement fire in J building was extinguished with aerial spray. After this day, fire/smouldering/smoke is expected only in M building near the location of MCC Warehousing.

Stabilization activities were initiated this day in the MCC warehouse area.

Oily material containment and recovery continued this day

Air monitoring activities continued this day including posting results at the Command Post.

At the morning Command meeting, the OSC advised Site personnel of safety procedures, evacuation signals, evacuation routes, muster points and requested that each work zone identify a single person responsible for accountability. A radio (provided by Montgomery County Emergency Services) was distributed to each responsible individual. EPA would use a 5 mg/cubic meter particulate and 5 ppm VOC concentration in addition to routine monitoring parameters to initiate Site alarms. Site Safety Plan document was completed this day.

MCC Warehouse stabilization operations between 0800 and approximately 1800 this day.

See POLREPs 04 and 05 for additional information

DAILY PLAN

Initiate stabilization of MCC Warehousing location Review available actual inventory information Continue oily material containment and recovery operations Continue air monitoring Initiate overall environmental assessment of complex Implement Site Safety Plan

- (1) 1000 and 1600 command/safety meetings conducted this day.
- (2) The OSC reviewed actual inventory information submitted by Durr Marketing Associates and Pentachem. These companies were requested to submit inventories of chemicals believed to be within the warehouse. Actual inventory information is contained in APPENDIX 3. Information indicates that sulfur dioxide should be considered as a monitoring parameter. The initial area where stabilization operations will commence is the northwestern portion of the warehouse where Durr materials are stored (also the location of a ramp and adjacent staging areas). A summary of the Durr Marketing chemicals and issues of concern follows:

DURR Marketing Associates

inventory chemicals are mainly pigments

SPECIFIC RELEASE ISSUES

Lead

52,004.2 pounds

Napthalene

110 pounds

GENERAL CHEMICALS AND ELEMENTS

. Lead Chromate

Lead

Chromium

Lead Sulphate

Molybdenum compounds

Antimony Trioxide

Antimony

Aluminum Oxide

Aluminum

Barium Sulfate

Barium

Zinc Oxide

Zinc Sulfide

Zinc

Barium metaborate monohydrate

Boron

Titanium dioxide

Zirconium dioxide

managnese

GENERAL DECOMPOSITION PRODUCTS

Lead Oxides

Chromium Oxides

Antimony Oxides

Carbon Oxides

Nitrogen Oxides Barium salts

Organic vapours (e.g., Hansa Yellow DCC 1120,7074 and

other flammable paint pigments)

SPECIFIC DURR CHEMICALS of POTENTIAL CONCERN

BUSAN 1078 (440 pounds)

2-methyl-4-isothiazolin-3-one

5-chloro-2-methyl-4-isothiazolin -3-one

magnesium nitrate

Corrosive, irritant, sensitizer, water soluble liquid decomposition to Sulphur dioxide, HCL, NOX

BUSAN 1025 (2235 pounds)

2-(thiocyanomethylthio)benzothiazole

methylene bis(thiocyanate)

aromatic solvent

N-methyl-2-pyrrolidone

napthalene

Combustible, corrosive, sensitizer, toxic, irritant, liquid, insoluble, decomposition to cyanide salts. Thermal decomposition to toxic vapors of HCN and sulfur dioxide (fire = CO, NO, SO)

BUSAN 1024 (2790 pounds)

Formaldehyde

1-methyl-3,5,7-triaza-1-azoniatricyclo

decane chloride

Soluble, irritant, contact with amines could cause Ammonia, and other amine release. Flame may cause oxides of carbon and nitrogen and HCL

Flammable PAINT PIGMENTS

DCC1112 (Yellow T.Y.) 200 pounds

DCC 6005 (Bon Maroon) 375 pounds (contains manganese)

DCC 2220,2222,2227,2240,2254,2241,2260 (Toluidine red) 1325 pounds

DCC 1802 (Pyrazolone Orange) 525 pounds

Flammable, produces organic vapours

- (3) The OSC directed START (Tetra Tech) to conduct a radiation survey around the Site. Available information indicates that potential radioactive material exists only in an unburned building. The OSC nonetheless directed the survey. The results indicate no readings above background.
- (4) Lewis Environmental was awarded contract to stabilize the warehouse area. The OSC met with the contractors and surveyed the location. The OSC relayed the strategy previously discussed with PADEP and the owner. The chemicals are to be removed from the suspect structure and staged in appropriate location outside of the burned and collapsed warehouse. The contractor was encouraged to develop their own methods of actually implementing the strategy.
- (5) The OSC informed the contractor to contact Durr Marketing Assoc. which had requested to be notified when their materials were going to be removed. The plan developed by Lewis indicated that Durr's materials would be the first to be removed since the most logical access area was at a location where Durr's materials were stored. The Durr representative requested to be present or the materials could not be moved. The OSC was requested by Lewis and the owner representative to become involved in the situation.
- (6) The OSC discussed the urgency of the matter with Durr and the fact that they were notified within 60 minutes of determining that their materials would be among the first to be removed. The OSC estimated that the action would not start for a few hours since the contractor was still setting up the work zones. Durr was going to send their insurance agent to the Site. The OSC informed that the work would start with or without the agent present.
- (7) The OSC toured the Durr insurance agent to the location of the MCC warehouse.
- (8) Lewis Environmental initiated preparation activities for the stabilization effort at the MCC Warehouse this day. Lewis is supported by demolition operators from Schultz Demolition and Domino Salvage. The area was prepared by removing a PCB transformer and surrounding rubble to a nearby staging location (boiler house wall), demolishing a wall on J building and removing the rubble, and preparing a decontamination corridor.
- (9) The staging area for the MCC stabilization operations is crossed by an overhead steel bridge. An asbestos wrapped pipe exists under the bridge. The bridge supports are compromised by adjacent building collapse and the bridge must be removed. The OSC and PADEP agreed that the pipe should be wrapped, then dropped, and moved to a secure area for abatement. PADEP informed that Air Quality (Stroble) must be informed of this operation, but approved its initiation.
- (10) Lewis Environmental initiated stabilization efforts this day. Barium metaborate monohydrate was the first chemical to be removed.
- (11) 15 5-gallon containers of phosphoric acid were removed from C building and placed into staging area.
- (12) Water discharging from the area of pressurized vessels and containers under a fog spray since the night of 18 May began to turn green and exhibit an elevated pH. The contractor prepared to contain the water and PADEP would approve discharge after neutralization. The fog spray was instead discontinued. The source of the elevated pH and green coloration is unknown.
- (13) The owner was requested to control Site security to ensure that safety of persons entering the Site to view remains of businesses are ensured. EPA will only be able to protect Site personnel if we are able to know who is here. The owner hired a security firm.
- (14) The OSC was requested to attend a meeting at Borough Hall on Tuesday at 1930 hrs.

- (15) The OSC and PADEP evaluated pooled water in the J building basement this day. The basement is holding a significant amount of water. The drainage system from the building basement appears to be clogged.
- (16) Inspection of oil containment devices this day by USCG-AST indicates the need to remove oiled pads. The OSC advises that pads may no longer be necessary. The contractor should consider using containment boom, absorbent boom, and oil sweep.

20 MAY 01 - Sunday

SIGNIFICANT ISSUES

A significant amount of water is trapped within the basement of the J building. According to information from the owner's representative, the basement is usually drained from a 24" pipe which leads to the River. The pipe must now be clogged. The basement is nearly full of water (less than 2 feet below the beams which hold the roof of the basement) and debris. The water likely flows slowly to the River. The OSC directs that a sample be collected and subjected to hazardous categorization (hazcat) testing. These preliminary results will be used to determine the urgency of additional sampling and potential necessary removal of the pooled water. A sample of runoff water will also be collected and subject to similar hazcat testing. The hazcat results were each negative. The basement water level will be monitored. The OSC will await analytical results (due 21 May 01) for further decision making.

Fire cause investigation returned Site control of C building to Bridgeport Fire Chief.

Hot and smouldering areas remain within the complex. Fire and smouldering areas of J and C building are addressed. Remaining hot and smouldering areas remain only in the M building and primarily in the MCC Warehouse.

Based upon concern over the possibility of fire spread from the basement of the MCC area of M building to other areas of M building that were not destroyed by fire, the Bridgeport Fire Chief and USCG AST personnel conducted an entry into the western end of the basement to evaluate the potential for spread of fire. The entry team found that the possibility of fire spread to the western end of the basement was remote due to the presence of walls, the low amount of combustible material and the moisture level.

See POLREP 06 for additional information.

DAILY PLAN

Evaluate J basement water
Continue evaluation of Site drainage
Rehabilitate oil containment devices
Continue oil containment and recovery operations
Continue MCC stabilization activities
Remove ACM piping

- (1) 0800 Safety Meeting as well as 1000 and 1600 Command meetings were conducted.
- (2) START contractor (Tetra Tech) collects a sample of runoff water and J building basement water for hazardous categorization testing. The results do not indicate that the samples are particularly dangerous. The basement water level continues to remain high and will be monitored this day. The basement water may be analyzed pending receipt and review of runoff water analytical results collected previously from the canal.
- (3) Demolition operations this day included removal of high walls of M-135 building along Front Street. Removal of these suspect walls will enable the gas company to dig and then turn off the gas supply feeding the small gas fire along Front Street.
- (4) Based upon concern over the possibility that fire in the M building basement of the MCC area could spread to the basement of M buildings to the west, USCG-AST participated in an entry with the Bridgeport Fire Chief. The entry started in the western limits of the M building where the Chief determined that the possibility of fire from the eastern end was not likely. The entry continued through a collapsed area immediately west of the MCC Warehouse to determine if the source of the smoke in the MCC Warehouse could be determined. The entry found that the smoke in the western edge of MCC Warehouse originated from timbers and wood supporting the concrete floor. A grappler was used to pull a piece of flooring and enable water to extinguish this small area of fire. Other small areas remain.
- (5) The owner representative informed the OSC of the existence of a large amount of PVC piping in the basement area of the MCC Warehouse. Based upon the possibility that these pipes are part of the remaining smouldering area, the OSC determined that USCG-AST conduct additional air sampling for vinyl chloride. No concentrations were detected.
- (6) The USCG-AST was directed by the OSC to document possible environmental hazards throughout the complex as part of the OSCs overall evaluation of environmental conditions and concerns resulting from the fire.
- (7) Asbestos covered piping under a steel bridge spanning the staging area west of MCC Warehouse was wrapped. The pipe is to be removed to a separate staging area for future abatement. This activity was conducted by contractors for the owner.
- (8) The oil containment boom and associated absorbent materials were rehabilitated this day in anticipation of upcoming rain events. The oiled absorbent materials were removed.
- (9) Stabilization operations continued in the MCC Warehouse.

21 MAY 01 - Monday

SIGNIFICANT ISSUES

Initial results of the runoff liquid sample collected by EPA (START contractor) are verbally received this day and indicate increased concentrations of some inorganic and organic parameters. Most contaminants are in the low ug/L range and do not suggest the need for extraordinary measures to contain all Site runoff liquids at this time; especially since runoff pathways within the buildings remain unknown and storm waters from the Borough pass through the canal significantly increasing flow volumes. Petroleum hydrocarbons are the most elevated contaminant and many of the other organic parameters may be trapped in this oily layer. Partial results (some metals) also received from PADEP this day. The OSC and PADEP will continue to monitor J building basement water levels; which remain high, but appear to be dropping slowly. The OSC requests Lewis Environmental to sample the water. The OSC will continue efforts to stop drainage from the source areas.

No further fire suppression activities are anticipated by Bridgeport. The only smoke is from the MCC Warehouse area. Previous entry indicates that this smoke emanates from burning/smouldering timbers in the basement roofing. Additional areas of smoke may be chemical in nature, but the area cannot be safely accessed at this time.

The gas company turned off the gas feeding the flames along Front Street this day. This was made possible by the removal of the damaged high walls of M-135 building along Front Street.

MCC Warehouse stabilization operational period is between 0700 and 1900 until further notice.

See POLREP 07 for additional information.

DAILY PLAN

Develop plan for ensuring safety of business owners and insurance persons expected on Site during upcoming week Evaluate ability to enter MCC Warehouse basement from eastern end to evaluate drainage

Notify PADEP of asbestos pipe Evaluate runoff analytical data and determine need for containment actions (especially MCC area water)

Evaluate possible containment strategies

Evaluate need to address water in J basement

- (1) Safety and Command meetings held this day at 0700, 1000, and 1600.
- (2) The OSC requested USCG-AST to coordinate with owner representatives and take actions to ensure safety of persons anticipated to return to the Site during the upcoming week. Line of sight or escort is needed to ensure that business owners/insurance personnel are aware of evacuation procedures. Additionally, business personnel that intend to operate come Monday morning require briefing. The OSC requested that the owner assist in this matter. The OSC advised the owner that entry into the buildings would be his responsibility; the OSC advised against this allowance.
- (3) The OSC received verbal analytical results of a runoff sample collected by Tetra Tech from the canal. The results indicate elevated concentrations of petroleum hydrocarbons and some inorganic elements. Low concentrations of a variety of organic compounds were also detected. The analytical results do not warrant extraordinary measures to control/contain all Site drainage. However, some elements/compounds exist at concentrations that pose a potential threat to human health and the environment. Contaminants include caprolactam, 2-butanone (MEK), acetone, tetrachloroethene, benzene, toluene, xylene, napthalene, MIBK, aluminum, cadmium, lead, and zinc. It is reasonable to assume that many of the organic contaminants would reside in the oily layer and be removed by ongoing oily

material containment and recovery operations.

- (4) Partial analytical results of PADEP sampling of May 16 and 17 were also received this day. The PADEP results indicate that lead is a contaminant in the runoff, but dissipates/dilutes in the River water to very low levels downstream of the Site.
- (5) Based upon the potential contaminants in the runoff water, the OSC requests Lewis Environmental to sample the water pooled in the J basement. The water level appears to be slowly dropping at this time. The OSC was informed by building owner representative that the building has designed drainage to the River. This drainage (possibly a 24 inch pipe) must be unclogging.
- (6) OSC and START contractor (Tetra Tech) develop and evaluate possible containment strategies for contaminated waters exiting the MCC area to the canal. Since the canal passes a large amount of storm water it will be impractical to contain flows during storms. Similarly it will be difficult to pump or re-route flows around the Site (Possible strategies are document in APPENDIX 4. The OSC determines that effort to contain discharges at their sources, effort to cover the exposed chemical areas, and effort to plug drainage ways in the MCC basement are the only reasonable and practical methods to limit contaminated discharges. Analytical data was considered in this decision.
- (7) Air monitoring was not conducted this day due to rain.
- (8) Due to precipitation, the Site's drainage patterns were evaluated and recommendations for inlet protection were passed to the environmental contractor (Lewis Environmental).
- (9) Several burned and damaged automobiles were removed from the Site this day. The removal processes created an oily sheen over a large area of the Site roadways. The OSC informed the contractor that additional care should be taken.
- (10) The OSC and USCG-AST entered building M-135 this day to inspect a small area of smoke and an observation of drums. The eastern end of the M-135 building is part of the MCC warehouse. Several smouldering timbers were found within the building, a cart of lime, and several empty drums.
- (11) Additional boom was placed this day along an active outfall from the Site to the Schuylkill River. This will allow for the containment and collection of oily material closer to the Site. Prior to this time, oily material was allowed to move about 1000 feet down River before being addressed.
- (12) Oily debris was removed from the canal.
- (13) Stabilization operations continued in the MCC Warehouse. Chemical (titanium dioxide) was removed, additional walls were removed, and debris was cleared. The area of a significant amount of lead-containing pigments is upcoming.
- (14) USCG-AST provided site safety for persons onsite today needing to view their former business location.

22 MAY 01 - Tuesday

SIGNIFICANT ISSUES

Evaluation of the surface drainage from MCC Warehouse area indicates that storm runoff from the western side of the MCC Warehouse enters the grates over the canal. Recent precipitation has enabled the OSC and START contractor to visibly identify surface migration pathways and inlets that require increased protection. The OSC recommends additional protection to minimize this drainage.

Observation of the MCC work area indicates that precipitation is mixing spilled materials and allowing these materials to drop through the flooring through designed and other drainage ways. Contaminated water drops through holes that formerly contained pipe, holes that contain/house grates or plates, and cracks in the floor resulting from the buildings collapse or time. Due to the current inability to stop drainage from the MCC Warehouse to the canal and the impractical nature of containing all canal water, the OSC finds that there are no other measures that can be immediately taken to stop drainage from migrating through the M building. Chemicals will continued to be covered and the drainage will continue to be investigated. The OSC also advised that the contractor make effort to keep pooled liquids away from drains and use vacuum truck to remove liquids before overflow.

A rain event caused the canal water level to rise very quickly as Borough water passed through. This verifies local knowledge. This also verifies the impractical nature of containing all runoff waters in the canal.

Federal Trustees were again notified this day due to the discovery of an oiled gosling. The bird was sent to Tri-State Bird Rescue.

See POLREP 08 for additional information.

DAILY PLAN

Continue investigation of Site surface and subsurface drainage.

Inspect Site after rain and make changes as needed to handle future storms
Rehabilitate booms from recent precipitation, recommend reduced use of pads
Evaluate entrance into MCC basement from the southeast area of building M
Sample J building basement water and determine need to contain

- (1) Safety and Command meetings were conducted this day 0700, 1000, and 1600
- (2) The OSC advised that the use of absorbent pads could be reduced. Pads could release during rain events as River flows overwhelm the boom. Containment boom, absorbent boom, and oil sweep are recommended.
- (3) Analytical results of runoff liquids collected by EPA (START) on 18 May are received onsite this day (APPENDIX 5). The results indicate increased concentrations of a variety of parameters as indicated in TABLE 3. The results indicate that certain inorganic parameters (aluminum, cadmium, lead, zinc) and organic parameters (MEK, acetone, MIBK, tetrachloroethene, napthalene, benzene, toluene, xylene, and caprolactam) can be used to characterize the runoff. Additionally, the OSC finds that many of the organic contaminants will likely be in the oil layer where they may be removed. Some organic contaminants and inorganic contaminants would not likely be in the oil layer.

TABLE 3
EPA WATER QUALITY RESULTS OF CANAL DISCHARGE
18 May 2001

PARAMETER	EPA results ug/L (canal)	Water Quality Criteria	Human Health Criteria	Removal Action Level
Aluminum	1170	750		
Barium	151		1000	2000
Cadmium	10.4	4.3 *		5
Chromium	16.8	570*		200
Copper	237	13*		1300
Manganese	372		100	
Nickel	16.4	470*		500
Lead	34.1	65*		
Selenium	5.2	5		
Zinc	2110	120*	69,000	3000
Mercury	0.2	1.4	0.051	10
Phenol	1.65			6000
Benzyl Alcohol	4.07			
Napthalene	7.69			100
2-methylnapthalene	2.48			
PAH compounds	≲ 15			
Benzo(a)pyrene				0.2
caprolactam	75.6			
8 unknown compounds	≤ 300			
Acetone	307			3500
2-butanone (MEK)	297			21,000
Benzene	1.24		71	100
Toluene	6.79		200,000	2000
Xylene	1.65			40,000
4-methyl-2-pentanone	36.5			
Methylene chloride	1.37		1600	500
Tetrachloroethene	2.8		8.85	70
Petroleum Hydrocarbons	42,200 mg/L			

TABLE NOTES

Note 1: Parameters not reported in this Table are either not detected, not particularly toxic, or detected in blank sample.

Note 2: All results and criteria reported in ug/L except where noted.

Note 3: Water Quality Criteria are highest concentrations to which an aquatic organism can be briefly exposed without unacceptable effect. The values are not specific to the Schuylkill River and are based upon dissolved metal concentrations while EPA results are reported in total metal concentrations.

Note 4: Human Health Criteria represent values protective of human ingesting exposed organisms

Note 5: Removal Action Level is Superfund level for initiating emergency protection of drinking water

Note 6: (*) denotes actual value dependent upon hardness of River

- (4) The OSC requested that additional protection be placed around a grate inlet that allows liquids to migrate from the MCC Warehouse area west towards a grate that directly enters the large pipes that contain the canal in this area. A berm was built up around the grate area and the pooled water is periodically pumped. The contractor will install a berm in the work zone to minimize liquid migration to the canal grate. Liquids pooled in the MCC work zone drain to unknown locations primarily in the basement of the MCC Warehouse building.
- (5) One of the booms was repositioned as it was lost in the rain event.
- (6) Lewis Environmental collected a sample of water pooled within the basement of the J building. The sample will be analyzed for a variety of inorganic and organic parameters.
- (7) An oiled gosling was found in the boom this morning. The bird was placed in a box and transported to Tri-State Bird Rescue by Lewis Environmental for rehabilitation. The OSC notified the Federal Trustees. The OSC also spoke with Tri-State representative regarding possible contaminants in the oil. The OSC advised that the bird be handled as a bird with heavy oil contamination. USFWS (Roberts) requested updates on future wildlife issues and indicated that he'll be onsite before the end of the week.
- (8) The OSC requested that the River bank area be surveyed and that areas of oily debris and bird nesting be identified. Oily debris near bird nesting areas was to be removed. The START contractor and owner representative surveyed the bank.
- (9)PADEP was notified of asbestos pipe operation.
- (10) The results of River sampling and water intake sampling conducted by the Philadelphia Water Department were received onsite this day (APPENDIX 6). The samples were collected 16 and 17 May. The results indicate that monitored parameters thought to be linked to the Site were not detected in the water intake. The results indicate that low ppb-range concentrations of napthalene, nitrobenzene, toluene, xylene, MIBK, tetrahydrofuran, carbon disulfide, and 1,1-dichloro-2-propanone were detected in the River near the I-476 bridge. Methyl-t-butyl ether, a gasoline additive, was identified in all samples. Contaminants are not found at levels that would require extraordinary measures to contain current release of require treatment. The list of parameters analyzed by EPA and the Philadelphia Water Department are not the same.
- (11) Air monitoring was conducted for only a portion of this day due to rainy weather and high moisture. This day samples for Sulfur dioxide analysis were collected (based upon potential decomposition products of some Durr materials in the warehouse and the possibility that some of these materials are still hot or smouldering) to try and pinpoint an odor that continues to emanate from the Warehouse area. The odor has a sulphur smell. Sulfur dioxide readings were between approximately 5 and 7 ppm. The OSHA PEL is 5 ppm. The levels in downwind areas are less than 5 ppm. The OSC determines that the concentrations do not warrant additional activity to locate their point of origin in the collapsed and burned and contaminated structure.

- (12) The OSC requested that security fencing be placed in the southeast area of the MCC Warehouse to keep public back away from the operational area. The southeast corner of the MCC Warehouse is close to the Site entrance and security check point.
- (13) Most of the operations in the MCC Warehouse this day focused on the removal of a significant quantity of lead and lead chromate containing pigments.
- (14) The electric company was onsite this day to repair electric lines behind C building. Poles supporting the line were severely compromised during the fire. The sewer authority was also onsite to ensure that electric poles would not be placed near force main under the Site.
- (15) A vacuum truck was used to remove oily liquids pooled in the former footprint of the George's Auto Supply locations in C and M buildings.
- (16) Demolition operators worked with the OSC to open a potential entrance area into the southeastern wall of the MCC Warehouse. The parking area collapsed near an area which appears to be a pipe chase; the OSC could see a door in the distance of the collapsed area. The owner representative indicated that a stairwell existed in the area and that one could formerly enter the basement from this location. According to the owner representative, the basement area around the stairwell contained numerous tanks (formerly for soaking fibre) and was demolished and backfilled in the past. Demolition operators removed part of the parking surface and opened an entrance into a small room. The OSC entered this underground area and found a significant pool of orange colored oily liquid, a hallway, and another possible door in the distance. The area of smouldering remains could not be seen nor could the OSC determine how this area drained. It appeared that liquid was moving west along the corridor floor. The entry was completed at the end of the work day.
- (17) The OSC met with EPA CIC and attended a Council meeting at Borough Hall this evening. The OSC briefed the attendees on environmental, safety, and health issues.

23 MAY 01 - Wednesday

SIGNIFICANT ISSUES

The OSC and PADEP developed a strategy for overall Site environmental actions this day. The Site debris needs to be segregated into appropriate waste streams (e.g., RCRA, residual waste, Construction/demolition debris, Asbestoscontaining materials, PCB-contaminated materials). As demolition operations progress, the environmental contractors need to be able to identify these areas through review of available facility information, inspection of debris areas, and sampling as necessary. Potentially hazardous materials need to be removed from the debris. The Site drainage must also be contained. The OSC advised that EPA is actively trying to stop ongoing releases by investigating drainage in the MCC area. The longer term Site operations cannot continue to allow such releases. As such, the contractor must be able to develop an overall Site runoff containment plan. PADEP and the OSC met with the Site owner to request that the owner prepare a work plan to govern and guide these future Site activities. PADEP agreed to take the lead on oversight of longer term operations pursuant to the work plan. The OSC agreed to participate in review.

US Fish and Wildlife Service (Roberts) expected on Site this day.

See POLREP 09 for additional information.

DAILY PLAN

Identify/review available environmental files pertaining to business complex
Review ongoing documentation by EPA, USCG-AST, and START and consolidate where appropriate.
USFWS expected onsite this day.
Forward expected cleanup strategy for remainder of Site to owner
Review Bruggemann Chemical inventory MSDS

- (1) 0700, 1000, and 1600 safety and command meetings held this day
- (2) The OSC, USCG-AST, and START met to ensure that ongoing record keeping efforts were coordinated. Available records include START logbook. AST log book and documentation of environmental assessment, PADEP log, POLREPs, and OSC record. START provides OSC a list of bullet items for POLREP and OSC record.
- (3) Inspection of the newly bermed area between MCC Warehouse and a grate leading to the canal indicates that runoff water is effectively contained. However, vacuum truck operations will need to periodically be conducted to prevent overflow. The contractor should rely upon berms constructed at the perimeter of the operational areas of MCC...
- (4) The water in the J building basement continues to remain high, but is now obviously draining to the River. PADEP to evaluate need to prevent drainage, release drainage slowly, or ignore drainage. The decision will be made based upon consultation with water quality personnel and consideration of available analytical data. Data specific to the basement is expected later today or tomorrow.
- (5) The OSC and PADEP requested a meeting with the owner to discuss implementation of longer term cleanup operations at the Site.
- (6) US Fish and Wildlife Service onsite to inspect River bank area and identification of areas of concern. OSC and USFWS survey River bank. Advised to continue to report oiled wildlife. Beyond ongoing efforts to minimize oily debris in identified nest areas, no other effort to reduce potential impacts were directed.
- (7) Demolition operators assisted OSC to investigate possibility of opening an accessway to the MCC Warehouse from the northern wall. Several areas of the floor have visibly designed access to the basement or other below grade areas through plates or other holes. An area of the floor was opened, but the area appeared to be in a corridor immediately north of the basement now exhibiting smoke and in which drainage to the canal is anticipated. The OSC is unable to determine if this corridor is one which drains Site contaminants to the canal. Monitoring of the air space below the floor exhibits extreme levels of carbon monoxide. The hole could not be opened further south due to ongoing operations.
- (8) A water main along Front Street broke this day. The main is part of the service that feeds the business complex. Dust suppression efforts were hindered during this period. The hose line into the operational area was re-routed to another hydrant along Front Street.
- (9) PADEP and OSC met with the Site owner and environmental and insurance representatives. The purpose of the meeting was to direct the owner to develop a work plan pursuant to which future demolition and cleanup operations would be governed. The work plan should identify how the Site drainage will be controlled, how debris will be segregated to avoid mixing hazards, and how Site safety will be addressed. The debris should be organized pursuant to appropriate disposal (e.g., hazardous waste, residual waste, PCB, ACM, C&D debris). The OSC has agreed to provide the owner with all available developed information. PADEP has agreed to take the lead on work plan approval. The OSC will review the work plan product.

- (10) The OSC informed the owner that EPA will remain onsite through the efforts to stabilize the MCC Warehouse. Additionally, the USCG-AST will remain onsite until the owner demonstrates that he is able to take over Site safety.
- (11) The OSC met with newspaper reporter this day (Times Herald).
- (12) The OSC met with Montgomery County Emergency Services this day regarding the potential for local government reimbursement for efforts to (a) control release of oily material from George's Auto Supply and (b) control release of chemical from MCC Warehouse. County informed of need to seek reimbursement from owner and insurance first. OSC will investigate if efforts to control/prevent oil release may be suited to a claim under OPA.
- (13) Upcoming operational areas include areas where Bruggemann inventory is located. A review of inventory and MSDS information results in the following. MSDS are available on Site for all inventory chemicals. The information below is a summary. The information is not a complete list, but represents materials with higher amounts on site and chemicals of particular interest from a runoff or air monitoring perspective.

Bruggemann Chemical US

TABLE 4

GENERAL CHEMICALS/ELEMENTS

Caprolactam

Caprolactam sodium salt

caprolactam hexanediisoccyanate prepolymer

hexamethylene -1,6 - diisocyanate

Polyamide

Amorphous alumina silicate

methanesulfinic acid, hydroxy sodium salt

sodium carbonate

zinc oxide

zinc carbonate

zinc hydroxide

N,n-diphenyl - 1,4 - phenylenediamine

Quinoline based polymer

Phosphoric acid, salt

potassium bromide

potassium halogenide

cuprous iodide

phosphite derivative

Aliphatic polyisocyanate

1-methyl -2- pyrrolidine

sodium sulfite

Phosphonic acid

carboxylic acid derivative

hexanedioic acid

bis(2-ethylhexyl)ester

hydroxy-methanesulfinic acid

formaldehyde

lead oxide

GENERAL DECOMPOSITION PRODUCTS

Hydrogen Cyanide

Carbon Monoxide

Carbon Dioxide

Oxides of Nitrogen

Ethylenediamine

Oxalic acid

Oxides of Sulfur

Oxides of zinc

Oxides of Phosphorus

Oxides of copper

Iodine

Hydrogen Iodide

Cyanides

Phosphines

Oxides of lead

SPECIFIC BRUGGEMANN CHEMICALS OF POTENTIAL CONCERN

M-C10P (49,170 pounds in plastic drums) caprolactam caprolactam sodium salt

M-C20P (34,034 pounds in plastic drums) caprolactam caprolactam hexanediisocyanate-prepolymer hexamethylene- 1,6-diisocyanate (HDI)

E-01(120,000 pounds in fiber drums) methanesulfinic acid, hydroxy-,sodium salt sodium carbonate formaldehyde (residual)

H-321 (23,320 pounds in plastic drums) potassium bromide potassium halogenide cuprous iodide

Corrosive, irritant, soluble solid Decomposition to CO, carbon dioxide, Oxides of nitrogen, and HCN

Irritant, respiratory sensitizer, fine white partially soluble powder. Decomposition to CO, carbon dioxide, oxides of N, HCN

White soluble powder (pH=10). Decomposition to CO, carbon dioxide, oxides of sulfur

White, partially soluble powder, possible CNS effects Decomposition to CO, carbon dioxide, oxides of Cu, Iodide, hydrogen iodide

24 MAY 01 - Thursday

SIGNIFICANT ISSUES

Two additional oiled goslings were found today and transported to Tri-State Bird Rescue. The federal trustees were notified.

The contractor was requested to develop a strategy for securing the Site for a reduced operations period during the upcoming holiday. The OSC requested that the contractor be prepared to ensure that oily material from boom is removed, drainage inlets are protected, material is covered where possible, and Site is generally secured against precipitation expected during the holiday period. The OSC advised that EPA would take additional actions to enter the basement and identify and plug drains that may enable liquid to exit from the MCC Warehouse area.

See POLREP 10 for additional information

DAILY PLAN

Evaluate safest entry point for Level B entry to MCC basement to search for and plug, if possible, drains Determine need to contain J basement water Discuss transition of Site Safety to owner Develop strategy for securing Site for holiday period

- (1) 0700, 1000, and 1600 safety and command meetings held this day.
- (2) analytical results of J building basement water collected by Lewis available this day. The analytical results indicate increased concentrations of antimony (153 ug/L), cadmium (12 ug/L), copper (540 ug/L), lead (620 ug/L), zinc (3000 ug/L) 2-butanone (MEK)(55 ug/L), and acetone (140 ug/L). The analytical results are contained in APPENDIX 2. These contaminants can be traced to Site chemicals although it is possible that other structurally based products (e.g., lead paint) could contribute to some of the concentrations. However, the basement nearly completely drained during the night as a clog must have worked loose. At this time it is not necessary to contain remaining small amount of water. PADEP and OSC concur on this course of action.
- (3) Air monitoring activities continue to identify sulfur dioxide as the only compound of concern in the emission from MCC Warehouse.
- (4) The owner has agreed to prepare a work plan for longer-term environmental operations. There is no expected delivery date.
- (5) The owner was requested to provide for Site Safety similar to that currently provide by USCG-AST. The owner representative requested the OSC maintain this role through Tuesday of next week when a re-evaluation of capability will occur.
- (6) The contractor (Lewis) began to solidify the lead-containing pigments that released to the floor with kiln dust. The mixture was then transported to storage containers.
- (7) Demolition contractors continued support of MCC stabilization efforts by removing structural hazards.
- (8) Based upon the continual discharge of oily material into drainage which enters the canal and the River, the owner initiated cleanup operations in the auto supply locations of M and C buildings. Beginning this day, oily debris in the M building (M 101) was removed to storage containers. Oily liquids were pumped into a tank on the Site.
- (9) Damaged poly drums in the MCC Warehouse (Bruggemann area) were removed to the staging area.
- (10) High visibility fencing was installed along the Front Street side of the MCC Warehouse for improved designation of warm zone areas.
- (11) Gas company on site to test lines. Pressurized air escaped from an uncapped line near the MCC work zone. All personnel evacuated the area until the source of the event was determined. START and USCG conducted air monitoring. The event shows the importance of overall Site safety coordination.
- (12) Additional analytical results of PADEP sampling completed 16 and 17 May were received on site. The results indicate that several compounds were elevated in the fire runoff including lead, napthalene, acetone, 2-butanone (MEK), benzene, MIBK, toluene, xylene, tetrachloroethene, carbon disulfide, bromomethane, methylene chloride, and styrene. In general, the EPA and PADEP results indicate similar contaminants in the runoff. The EPA results area an order of magnitude less than PADEP results (possibly due to decreased runoff as fire-fighting efforts decreased). The list of EPA and PADEP analytical parameters are not similar. The analytical results are contained in APPENDIX Additionally, the results are contained in TABLE 5 comparing results to EPA data. PADEP found the pH of the canal water to be 10.4.

TABLE 5
PADEP WATER QUALITY RESULTS
18 May 2001

PARAMETER	PADEP results ug/L (canal) 5-16-01	EPA results ug/L (canal) 5-18-01	Schuylkill River upstream	Schuylkill River at canal	Schuylkill River downstream
Lead	318	34.1		52	1.3
Zinc		2110			24
Phenol		1.65	6.4	120	12.1
Benzyl Alcohol	NA	4.07	NA	NA	NA
Napthalene	116	7.69		33.4	
2-methylnapthalene	NA	2.48	NA .	NA	NA
PAH compounds	NA	≲ 15	NA	NA	NA
Benzo(a)pyrene	NA	1.03	NA	NA	NA
caprolactam	NA	75.6	NA	NA	NA
8 unknown compounds	NA	≤ 300	NA	NA	NA
Acetone	1720	307	18.3	629	27
2-butanone (MEK)	5360	297	4	151	1.2
Benzene	39.7	1.24	*	3.9	
Toluene	95.6	6.79		15.3	•
Xylene	48	1.65		10	-
4-methyl-2-pentanone	978	36.5	¥	30.6	2#2
Methylene chloride	17.3	1.37	-		2
Tetrachloroethene	16.6	2.8		6.2	
styrene	13.2	<u>"</u>		4.5	(*)
1,2,4-trimethylbenzene	6.6	NA		2.8	
bromomethane	72.2			-	-
carbon disulfide	97.6		2 2	0.81	5 0,000
Petroleum Hydrocarbons	NA	42,200 mg/L	NA	NA	. NA

Note: NA=not analyzed, (-) = no value, Note: Rive samples collected 17 May 01

25 MAY 01 - Friday

SIGNIFICANT ISSUES

The basement area of the M building complex is draining contaminated liquids into the canal from the MCC warehousing and George's Auto Supply areas through unknown pathways. Available information from the complex staff and an old print of the former Continental Diamond Fibre Company layout indicate that a basement exists under the subject area, but that it is partially filled, and its exact layout or drainage features are unknown. Business complex personnel indicate that they have seen piping along the floor of the basement. Effort to identify and plug this piping will minimize movement of contaminated liquids into the canal. Entry into the basement will be made this day to identify drains and plug these drains if possible.

Site operations will be minimized this upcoming holiday period. A significant part of todays operations resulted in placing covers over exposed contaminated areas and ensuring that identified drainage ways were secured.

EPA (USCG-AST) identified some drains in the basement and was able to plug (wooden plugs) two of these drains. This effort will provide for temporary stabilization and enable personnel to break from ongoing significant efforts for the upcoming holiday.

The contractor removed the majority of the pads from the River. This action will ensure that anticipated rain events will not result in the migration of oily pads down the River.

A plan was developed to call contractor, EPA, PADEP, and Montgomery County personnel in the event of the occurrence of events that must be immediately addressed or evaluated. Environmental contractor and EPA contractor will make daily inspections of Site during the upcoming three day holiday period.

See POLREP 11 for additional information.

DAILY PLAN

Secure Site operational areas for upcoming holiday period and expected rain
Enter warehouse basement to evaluate installation of stop-gap measures to prevent releases
Install stop-gap measures in MCC basement
Request owner to identify Safety monitor
Develop plan and call list for upcoming holiday period

- (1) Safety meeting (0700) and UC meetings (1000 and 1600) conducted this day.
- (2) OSC and PADEP informed owner that J basement water need not be removed. The vast majority of the water drained over the past 24-36 hour period.
- (3) OSC requested USCG-AST to review contractors safety plan and evaluate whether the plan will cover overall site safety (i.e., safety of personnel not working in or immediately adjacent to the MCC or oil recovery work zones). At this time, the EPA Safety Plan is the plan for protecting all persons that are on Site including contractors, business persons, utility workers, etc., that are onsite and not involved in the stabilization or oil recovery operations. The OSC requested the owner to begin assumption of these responsibilities.
- (4) The owner environmental representative continued to request EPA continue safety functions through Tuesday.

- (5) OSC and START investigate possibility of caprolactam as an air contaminant. Caprolactam is not volatile and would be expected as a particulate only. Particulate levels in air remain low.
- (6) The owner ensured that security would exist at the Site throughout the upcoming weekend.
- (7) USCG AST mobilized additional personnel to the Site to perform an entry into the basement area of MCC warehousing, inc. located beneath the current operational area and believed to contain at least some drainage pathways into the canal. The level "B" entry was made after operations in MCC Warehouse ceased for the day and securing operations were initiated. The entry team found that a significant amount of liquids and solid material from the first (grade level) floor of the warehouse has fallen through to the basement through designed spaces (e.g., grates and drainage ways) and spaces resulting from the collapse of the structure (e.g., cracks). The contaminated materials have entered open top tanks located in the basement as well as spilled upon the floor. The amount of the liquid and solid material is unknown. The integrity of the tanks and piping integrity is unknown. Liquids on the floor are able to migrate from the evaluated basement area through pipes and other spaces located at the base of the northern wall. The entry team was able to place wooden plugs into 2 of the pipes. Another area was draining water to a deeper pit (e.g., sump), but the outlet of this sump could not be investigated due to deep liquid levels. The entry team was unable to find safe entry into other basement areas of the MCC warehouse area. Based upon information derived from the entry team, the OSC determines that the effort has reduced, but likely not eliminated liquid migration into the canal. Further investigation will be needed. The owner will be informed of this information on Tuesday.
- (8) The Environmental contractor secured the Site against precipitation expected during the upcoming holiday period. Oily debris from the M building (M101) was covered and the oily floor in this area was bermed and covered. The floor contains a manhole that enters the canal according to the owner.
- (9) Based upon the covering of exposed oily and chemical materials, readiness of booms and absorbent material, and placement of plugs in identifiable MCC basement drains, the OSC determined that the Site operations could be minimized to maintenance and response status during the upcoming weekend. The installed stop-gap measures will provide temporary stabilization of chemicals and oily release. The Site will be monitored and the booms tended by Lewis Environmental contractors. The Site will be monitored and the air sampled by START contractor (Tetra Tech). The owner's environmental representative, the OSC, and Montgomery County Emergency Services will be contacted in the event of any changing situation at the Site. The OSC will notify PADEP. The owner is providing Site security.
- (10) The Site was placed in temporary stabilized status as of 1800 hrs. 25 May 01.

26 MAY 2001

SIGNIFICANT ISSUES

The OSC was notified by the owner representative of discharging discolored water from MCC Warehouse area after significant rain events this overnight period. The environmental contractors took actions to improve berms isolating water in the work zones. The OSC advised that if this action does not work, tanks should be brought to the Site to contain this water. Since the contractor does not want to mix chemical and oily discharge and the only available onsite vacuum truck contained oily material, the OSC advised that the contractor bring pumps to the Site. In the event of an emergency discharge, the OSC advised the pumping of waters to the MCC basement. The owner representative returned call to the OSC and advised that the berms were improved.

The OSC was notified by Montgomery County Emergency Services that increased smoke was evident from the MCC Warehouse area during the afternoon. The OSC called the owner and advised to have demolition contractors on standby and the OSC was to meet with Montgomery County at approximately 1730 at the MCC Warehouse. The OSC notified PADEP. The OSC found that increased smoke was indeed evident and that the smoke was not attributable to heavy weather and rain keeping the smoke close to the ground. Closer inspection revealed that the smoke was emanating from a pile of debris that appeared to be on the floor of the warehouse. The OSC determined that the smoke needed to be addressed since it represented a new condition that could threaten increased fire in the chemical storage area and increased emission to the community. Rain prevented useful air monitoring, but sulfur dioxide was identified downwind in the rainy weather.

The demolition operator used heavy equipment to remove debris and gain access to the smoking area. The OSC found that red and orange powders were smoking and that open flame appeared when the debris was moved. The OSC requested that START contractor review available MSDS. MSDS indicated that some of the pigments expected in that area were flammable and emit sulfur dioxide in combustion. The OSC and Montgomery County Emergency Services set up a hose line to the smoking area. The OSC directed that the operator remove debris from smoking area and expose smouldering chemical. The chemical flared. Water dispersed the red powder, but did not extinguish flame. After applying water to cool the area and after exposing the chemical to the water for about 60 minutes, the fire was deemed to be out. Additional hot spots were noted in the nearby areas, but they were not actively smouldering and emitting increased smoke like the area addressed this night. OSC , START, and Montgomery County demobilized at about 2100 hrs. Ongoing rain was expected to further decrease temperature and wet the area of smouldering chemical inaccessible at this time.

27 May 01 - Sunday 28 May 01 - Monday

Monitoring and maintenance operations were conducted these days. START contractor conducted air monitoring and found no readings above background concentrations. Smoke from MCC Warehouse is noticeably diminished. Significant rain events have overwhelmed the booms. One boom was dislodged by a telephone pole-sized log in the high water of the Schuylkill River. Environmental contractors ensure integrity of berms installed to protect inlets on the Site.

Upcoming operations are expected to be conducted in the remaining area of the MCC Warehousing throughout the upcoming week. Clients with chemicals stored in the remaining area include Pentachem and Energy Tech. The total volume of Energy Tech material is expected to be small based upon early conversation with the owner. A summary of MSDS information relating to Pentachem follows. The summary does not include information about all chemicals expected in the Pentachem inventory.

TABLE 6

Pentachem

Pigments contain a large variety of metals

GENERAL CEHMICALS AND ELEMENTS

Alkyd resin mineral spirits xylene ethyl benzene toluene surfactant pigments nickel antimony aluminum monohydrogen phosphate bis(3-aminopropyl)ethylenediamine ferric oxide isopropanol octadecylamine-octadecylguanadine cerium oxide bismuth molybdate bismuth vanadate molybdenum antimomy cadmium

polyoxyethanol ethylene glycol barium salt barium sulfate barium petroleuem hydrocarbon resin petroleum distillates chromium VI copper zirconium oxide neodecanoic acid manganese titanium dioxide formaldehyde diethanolamine ammonium formate melamine-formaldehyde copolymer diisopropyl-napthalene 2-napthalenol

GENERAL DECOMPOSITION PRODUCTS

carbon monoxide
carbon dioxide
ammonia
hydrogen cyanide
chlorides
toxic gases
formaldehyde
oxides of nitrogen
colored monazo dyes
3,3 - dichlorobenzidine

SIGNIFICANT ISSUES

The owner of the business park continues to conduct stabilization activities in the MCC Warehousing and adjacent George Auto Supply locations of M building. The chemicals and heavily oiled debris are removed from the burned and collapsed structure and placed into roll-off containers. Available inventory and MSDS allow segregation where possible, but many of the chemicals are mixed due to building collapse, burned containers, fire-fighting efforts, and significant precipitation events. The chemical warehouse is located over an area of the former fibre manufacturing facility that was constructed with a basement in which dozens of tanks, associated piping, and designed drainageways are/were located. The basement area drains through unknown pathways to the canal. EPA has been able to identify and plug at least two of these possible drainageways, but additional areas are expected based upon ongoing efforts to identify drains. At this time, the Site still allows potentially contaminated water to run uncontrolled into the canal or other unknown locations.

An entry into the basement at the end of this day by OSC, USCG-AST and START contractor identified additional drainage pathway from basement area to unknown locations; probably canal. The location is near the northwest corner of the warehouse footprint, Water is visible running along an east-west trending corridor along the northern edge of the area of tanks. The source of some of the water is a broken water pipe that cannot be safely accessed at this time, but water also originates from rain events and dust suppression activities. Sampling of this water and possible effort to block this significant drain will be evaluated tomorrow.

See POLREP 13 for additional information

DAILY PLAN

Reposition/redeploy booms compromised by weekend rain Continue evaluation of basement drainage in chemical warehouse area. Evaluate/transfer Site Safety role to owner Continue/complete environmental assessment of overall Site

- (1) Safety meeting conducted at 0700. Command meeting conducted at 1600.
- (2) OSC and START (Tetra Tech) review air monitoring data and modify future air monitoring to include only organic vapor and particulate monitoring. Additional monitoring will be conducted on an as-needed basis. Today's air monitoring did not identify elevated levels of contaminants.
- (3) USCG-AST and OSC advise Lewis Environmental that Level C respiratory protection should include combination cartridges for chemical protection in addition to dust protection. This recommendation is based on the possibility of unknown chemicals or chemical mixtures to contain organic materials that could penetrate the dust cartridges currently in use.
- (4) PADEP discussed boom strategy with OSC. OSC and PADEP agree that three areas of booming are necessary. PADEP continues to take the lead on boom strategy.
- (5) OSC and PADEP discuss strategy for addressing containment and/or cleanup of basement. The basement can be addressed as part of the emergency stabilization or as a longer-term cleanup effort. OSC and PADEP agree that this decision hinges on the success of identifying and evaluating the drainage from the basement. This drainage is currently

not fully understood, but is know to enter the canal through unknown pathways (2 pipes currently plugged by AST).

- (6) OSC directed START (Tetra Tech) to collect samples of canal discharge (near facility and in River) and a sample of water collected in a masonry tank beneath the operations area of the warehouse. Analytical results will characterize current discharge quality, quality at exit to River, and assist in determining urgency of completely blocking basement drainage.
- (7) OSC and USCG-AST discuss transfer of Site Safety to Site owner. OSC is prepared to transfer Site safety to owner representative Alpha Environmental when owner can assure that Site Safety plan addresses personnel other than environmental contractors onsite (Lewis Environmental work plan) and Site Safety plan includes air monitoring for organic vapors and particulates.
- (8) Tri-State Bird Rescue contacted OSC this day to inform that the 3 oiled goslings are fine. Requested contact with owner to discuss reimbursement and release of birds.
- (9) OSC Towle and OSC Kelly completed environmental assessment of C buildings this day. This effort built upon effort begun by USCG-AST and START previously. Assessment of J and H and M buildings continues.
- (10) OSC, USCG-AST, and START entered the warehouse basement from the west end this evening to identify drainage pathways. The basement contains numerous masonry tanks with old valves and piping. Mixers, pumps, and other machinery are present. Gutters pass between some tanks to drain liquids. Water was observed migrating from somewhere beneath the operational area of the warehouse, entering a sump along the northwestern corner of the area suspected to have a full basement (near loading ramp), and exiting a pipe destined for unknown locations (canal ?). This exit will be assessed tomorrow. The air space in the basement exhibited approximately 25 ppm organic vapor on PID and FID.

30 May 01 - Wednesday

SIGNIFICANT ISSUES

Oily runoff (mainly sheening with small discharges) continues to enter the canal through unknown pathways believed to be drainage ways serving the industrial facility formerly operating at this location. Discussions with PADEP have resulted in decisions to re-configure boom to better match ongoing discharge of sheen and "burps" of oil. The linear feet of boom was reduced and the amount of pads have been reduced.

Available inventory and MSDS allow segregation of chemicals removed from the MCC Warehouse where possible, but many of the chemicals are mixed due to building collapse, burned containers, fire-fighting efforts, and significant precipitation events.

The chemical warehouse is located over an area of the former fibre manufacturing facility that was constructed with a basement in which dozens of tanks, associated piping, and designed drainageways are/were located. The basement area drains through unknown pathways to the canal and potentially to other unknown locations.

Efforts by OSC and USCG-AST to identify drains in the basement have revealed that the accessible full basement area is a east-west trending corridor with at least five rectangular tanks along the south wall, pipe drainageways along the

north wall and floor, and several sumps/pits with unknown exit points. The USCG-AST prepared a sketch map of the basement corridor based upon several entries. The sketch map will be updated as additional information regarding drains and plugs is generated. The floor contains a large amount of chemical that has dropped through from the first floor (solid and liquid). Liquid exists in at least 3 tanks. The condition of the tanks and valves is unknown, but liquid is currently being held within (although tanks are weeping through cracks). The condition of the area behind the south wall is unknown; an old print indicates that area contained "fibre tanks" and the owner has indicated that much of it was "backfilled" when the warehouse area was improved. The western edge of the basement area under the warehouse is accessible and it contains tanks, piping, gutter drains, sumps, and machinery. EPA will continue effort to determine if liquid in the footprint of the chemical warehouse can be contained/isolated from the canal and River.

EPA has been able to identify and plug at least two possible drainageways in the MCC Warehousing basement area, but additional drains found 29 and 30 May are not yet addressed as they exist in sump areas that contain sludge material. USCG-AST entries have resulted in a sketch map that identifies known and potential drains from the basement area. The owner informs and OSC has observed that much of the basement area south of the mapped area and the majority of the warehouse footprint was backfilled in the past. It is unknown if drains were removed or plugged or if chemical has dropped into these areas (the OSC has observed chemical entering the backfilled basement area at two locations thus far, most of the area is still covered by burned rubble and chemicals). The floor of the intact basement area contains trench gutters designed to convey liquids to sump areas with unknown exit locations.

At this time, the Site still allows potentially contaminated water to run uncontrolled into the canal or other unknown locations.

See POLREP 14 for additional information.

DAILY PLAN

Further evaluate basement drainage from MCC Warehousing area Propose modifications to booming strategy Continue efforts to transfer Site Safety responsibility to owner

- (1) Operational period of the Site was reduced this day by owner. Work period is from 0800 to 1700. Safety and Command meetings conducted.
- (2) START contractor (Tetra Tech) continued air monitoring for organic and particulate. No elevated readings were identified.
- (3) OSC forwarded information to owner regarding need to contact Tri-State Bird Rescue regarding 3 goslings from Site. The 3 goslings are fine. Tri-State needs to talk with the owner regarding payment and release strategy.
- (4) Additional dike/berm (absorbent boom and debris) constructed along building C-111/C-101 area to prevent oily material in a former auto supply storage location from exiting the former building footprint during rain events. Oily material on the pad of the building overflows through rubble and flows west along the road into a drain which outlets to the River.
- (5) Lewis Environmental removed some boom and re-configured others to streamline oil collection and recovery areas. Lewis worked with PADEP regarding the deployment of boom. Lewis added additional boom further into River at owner request.
- (6) Water company onsite today to shut water service into MCC Warehousing building. USCG-AST and OSC, during

basement entry of 29 May, found that clean water was running through contaminated basement corridor and exiting through drain at northwest corner of chemical warehouse. The source of the water appeared to be a broken pipe along the south wall of the warehouse on the collapsed second floor. The water fell to the first floor and drained into the basement through holes in the floor. The water company successfully uncovered street valve and turned off water.

- (7) OSC conducted preliminary environmental characterization of H building (old boiler house). The building is still intact but fire damaged. The building has numerous drums of unknown materials and asbestos. Demolition contractors also onsite to evaluate requirements for demolition.
- (8) OSC forwarded initial assessment of buildings to owner. Additional information to be added and document finalized 31 May 01.
- (9) Lewis Environmental continued to stabilize chemical warehouse area. Partially burned drums and containers were removed and overpacked or otherwise stabilized.
- (10) OSC determined that M building basement area needs environmental cleanup. OSC will forward request to owner.
- (11) OSC, START, USCG-AST, PADEP entered MCC Warehousing basement on the western end this day. The purpose of the visit was to collect a sample of water exiting a sump (drain box) located at the northwest corner of the MCC basement area (relatively clean water from a running water pipe on the second floor), conduct air monitoring, and inspect basement with PADEP. Air readings for carbon disulfide, formaldehyde, m-cresol, nitrous oxide, sulfur dioxide, carbon monoxide, and organic vapor. Low levels of organic vapor and sulfur dioxide were detected. All other parameters were not detected. Organic vapor readings from previous entry cannot be reconciled.
- (12) START (Tetra Tech) collected sample of basement water discharge location at northwest corner. The water originated as clean water along the south wall. The water ran down a corridor and entered a sump (drain box) with a pipe at the base. The sample will provide characterization of water quality exiting the western portion of the basement.
- (13) USCG-AST entered the warehouse basement from the northeast corner this evening to evaluate condition of previously plugged holes, existing pooled liquid, liquid levels in tanks, and gather information to again determine how liquid exits the basement area. The wooden plugs set on the 25th of May were in good condition, but the pooled water identified on Friday 25 May was gone. The liquid appears to have drained out through a "sump" area between two rectangular masonry tanks. This area was under a sizable pool of liquid on the 25th. Effort will be needed to determine how liquid drains through the sump. Additional sumps/pits were identified and sketched onto a figure; one passed liquid at the northwest corner. Air monitoring revealed low levels of organic compounds in the basement this day.

31 May 01 - Thursday

SIGNIFICANT ISSUES

Activities were initiated this day to remove liquids accumulated in the tanks identified by USCG-AST in the northern area of the basement of MCC Warehousing, inc. These tanks exist along the south wall of an east-west trending corridor in the basement level of the warehouse. An old print identifies the building area as consisting of fibre tanks.

Water formerly pooled in the corridor has gone. The EPA sample of water collected from a basement tank on 30 may can be used to evaluate quality of water in this situation. Since the only water now visible on the floor exists within a sump adjacent to two of the tanks, the OSC believes that the sump is a factor in the drainage of liquids from the basement area. Activities were initiated this day to remove the liquids, solids and debris from the sump to determine if an outlet can be identified. If an outlet can be identified, effort to plug this outlet will commence.

The OSC desires to transfer all Site Safety responsibilities to the Site owner at this time. Future work is going to occur under a work plan approved by PADEP. The current environmental contractor onsite has a qualified safety officer. The OSC has requested the owner prepare an overall Site Safety Plan and identify qualified persons to implement that plan. The purpose is to ensure that other persons working on the Site and the community remain protected from the environmental operations and hazards.

The OSC and USCG-AST finalized an overall assessment document of the complex. This document (APPENDIX \mathbf{q}) summarizes specific environmental or safety issues visible at specific building locations. This document should guide future demolition/dismantlement operations or work plan development. The document will be delivered to the owner.

See POLREP 15 for additional information.

DAILY PLAN

Evaluate ability to plug sumps in M building basement
Remove liquids from basement tanks
Complete Assessment document
Work to complete Site documentation
Prepare for EPA demobilization of emergency stabilization actions

- (1) OSC and USCG-AST completed overall environmental assessment document. The document (APPENDIX q) identifies environmental and safety hazards visible at specific building areas. Additionally, several recommendations for environmental actions are contained within.
- (2) OSC and USCG evaluate obstacles for transfer of Site Safety responsibility to owner. OSC expects a plan to ensure protection of community and Site visitors. Lewis Environmental operations conducted under suitable Safety Plan.
- (3) OSC requested a meeting with the owner 1 June 01 to conduct transfer of information and Site status, determine status of work plan for remaining Site cleanup activities, and deliver Site assessment document.
- (4) OSC requested removal of liquids from tanks in the M building basement. This activity was initiated this day by Lewis Environmental.
- (5) OSC requested removal of liquids and solids from sumps in the floor of the basement believed to convey water from the M building area. This activity was initiated this day by Lewis Environmental.
- (6) PADEP advises on removal of certain boom and strategy for continued boom protection.

01 June 01 - Friday

SIGNIFICANT ISSUES

The drains and sumps identified in the east-west trending basement corridor have been sealed or plugged. Two pipes located in a sump between two masonry tanks are suspected as enabling the drainage of pooled water from the basement of the MCC Warehousing area. The locations of the drains, sumps, and plugs are identified on a sketch map prepared by USCG-AST (see Appendix 1). A sump between 2 tanks in the east-west trending corridor contained 2 pipes (a 6 inch pipe inthe floor and a 4 inch pipe in the wall of the sump). Liquids drained from the sump and the surrounding floor area through at least one of these features. The holes were plugged by Lewis Environmental. A sump along the northwestern corner of the full basement area contained a 12 inch discharge pipe. The pipe was plugged. USCG-AST inspected and photographed these features and efforts. At this time, the OSC believes that all accessible drainage features have been addressed. Other features in the basement that may drain water have not yet been inundated based upon visual inspections.

OSC and PADEP met with Site owner this day. OSC and PADEP exchange information about Site cleanup goals, objectives, and directions. Owner informs that they are actively preparing a work plan, but little progress has been made. OSC informs of expectations about environmental cleanup and demolition with no environmental releases. The owner is informed of chemicals in the basement of the M building and the likelihood that these chemicals can only be removed with significant effort (involving demolition equipment not currently onsite). Although the drains are plugged that EPA has identified, all drainage is not understood at this time. Maintenance of the pooled liquids is necessary.

OSC informs owner of Site Safety requirements. OSC provides owner with a memo identifying EPA efforts to date. OSC also provides information from 29 CRFR 1920.120. OSC expects an overall Site Safety Plan that ensures protection of community members. OSC transfers Site Safety liability and responsibility.

OSC determines that the emergency response phase of this incident is over. Since available drains are plugged, containment devices are installed, and contractors continue to work to mitigate the unsecured chemicals and oily materials, the OSC believes that the Site is stabilized. The OSC and PADEP expect that future work will be conducted under a work plan.

See POLREP 16 for additional information.

DAILY PLAN

Complete removal of liquids/solids in tanks and sumps
Inspect cleaned and plugged sumps/drains
meet with owner to transfer Site Safety, deliver assessment document, express concern about basement

- (1) OSC prepared a memo identifying EPA air monitoring efforts and related Site Safety issues (APPENDIX 10). This memo was delivered to the Site owner this day.
- (2) OSC directed that sumps previously identified by OSC and USCG-AST be cleaned, inspected, and plugged. Lewis Environmental plugged 3 separate pipes located in 2 sump features. USCG-AST photographed the pipe features and plugs.
- (3) OSC and PADEP met with the Site owner and his representatives. The following was accomplished:
- A. OSC discussed remaining areas of environmental concern. The OSC delivered a Post-Fire Incident

Assessment containing areas of environmental concern. The document identifies buildings with drums, containers, cylinders, and other items of potential concern. The document makes basic recommendations for addressing areas of concern. Generally, the OSC identified MCC Warehousing (including basement), George Auto Supply, and H building as areas of significant concern. Other areas of concern center on areas with smaller amounts of suspect containers primarily located in C building. The ability for contaminated waters to drain from J building was also identified as an area of concern.

- B. OSC advised of future environmental work. OSC recommended that Site areas be segregated by waste stream (e.g., hazardous, residual, construction/demolition, ACM, PCB) and that demolition operations proceed with goal to keep these areas segregated. Additionally, areas/issues of potential concern should be addressed specifically and separately (e.g., areas identified in assessment document) to avoid mixing of potentially hazardous and non-hazardous items.
- C. OSC advised of potential for decontamination of debris rather than disposal of debris. Certain debris is mixed with pigments that will turn surrounding ground color of pigment in rain events. Other debris is oily. Owner should evaluate decontamination vs. disposal options.
- D. OSC advised that MCC basement area contained contamination that has migrated from the ground floor. The
 contamination is both liquid and solid form. The area is backfilled and much of the area was not accessible.
 The owner was advised that this area would likely need to be addressed by equipment and strategy different
 than that of other parts of the Site.
 - E. OSC requested status of work plan. OSC was advised that work plan is not complete. OSC requested that future work in environmental areas (other than MCC Warehousing and adjacent George Auto Supply) proceed under the guidance of a work plan. OSC advised that information contained within owner environmental files should be used in Work Plan (i.e., use available knowledge). PADEP and OSC have advised that government turn-around time would be fast. OSC expects that work in areas of concern would not commence in the absence of a work plan, but that areas of demolition debris in the absence of areas of concern should commence immediately. OSC advised that the remainder of the Site was equivalent to a Time-Critical Removal Action.
 - F. OSC forwarded information about EPA efforts for air monitoring and Site Safety. The OSC advised that EPA was functioning as Site Safety when Fire Marshall (Bridgeport) maintained control of Site and EPA was actively working. Now that owner's contractors are conducting all work, the OSC expects that the owner have responsibilities for Site Safety. OSC transferred Site Safety responsibility along with information from 29 CFR 1910.120 discussing components of Site Safety Plan and Site Safety Officer requirements.
 - (4) OSC determined that emergency response phase of incident was over. OSC would maintain contact with PADEP re: work plan.
 - (5) Demobilization of EPA and USCG-AST assets occurred this day.
 - (6) OSC informed that Fire Marshall/Fire Chief returned Site back to owner.

FUTURE EXPECTED ACTIONS

- 1) receive and forward analytical data relating to canal and River and tank and discharge collected 30 and 31 May.
- 2) coordinate with PADEP regarding work plan for Site cleanup

- 3) prepare endangerment determination
- 4) coordinate with PADEP regarding monitoring of cleanup efforts.
- 5) forward this OSC Record to Montgomery County Emergency Services, PADEP, owner.

APPENDIX 1

SITE FIGURES

CONTINENTAL BUSINESS CENTER BRIDGEPORT, PA.

1	2			3-2001
1	Company	Locati	on Contact	=
1	ARB Breadcrumbs	C-193	B.Borzillo	Telephone Bax
1	Becotte Design	A-10	M. Becotte	610-272-7230
1	- Brunner & Lay	M-11	L.Miller	215-641-1257*
	Bushar Corp.	A-100	C. Bushar	610-239-8831 239-8832
1	C & H Engineering	A-103		610-272-4200 292-8493
1	C.J. Robinson Co.	C-241	T.Harrington	610-272-5806 272-5809
1	Ed Carcarey NORR	Ground	C. Robinson	610-896-5022 896-5031
ı	Chain Mar Inc. No.		E.Carcarey	610-275-1799
1		J-119	D. Carlson	610-279-0300 279-6930
1	Colonial Electric KP	J-327	R.DiGiacomo	610-272-8980* 279-2807
1	Crecraft for Treecraft	Ground	A.Pedlow	610-277-\$100* 277-8131
l	- Designers Furniture, Outlet	J-201	R.Crecraft	610-525-1818*
	- Dovar Mechanical	M-13	S. Rubin	610-279-89 5 0
	- George Auto Supply	C-111	J.Small	610-275-5300 275-9288
	K.T. & Co., Inc.	D-165	G. VanGieri	610-277-5518 277-5345
	Kaiser Printing	L	J.Texada	610-520-0221*
	Keystone Supply	C-151	D.Kaiser	610-272-3910 272-3910
Printer	- Label Rite, Inc.	C-119	K.Barbson	610-275-4566 275-4563
	League Collegiate Wear		D.Lawler	610-279-0166 279-4725
	Lite Tech, Inc.	C-135 & J.		610-272-7575 272-9175
	Little Souls	M-1	T.Knig	610-279-5238
	M.C.C., Inc. AL Oxide (4)	J-301	G. Wilson	610-277-9950 277-8705
	M.C.C. Whsg., Inc.			610-277-2444 277-0135
	M.L.Floor Covering	M-101	M.Helverson	610-272-6245
	Maher Design	C-150	M. Wacker	610-948-5147*
	Mazuk Inc.		D.Maher	610-278-9668 278-8642
	- Main Line Lawn Service, Inc.	Ground	F.Mazuk	610-687-8876
	Nikobenet, Inc.	C-147 J-325	Rick & Brian	610-292-0673
	Panther Products East	8	M.Nikpour	610-658-2070 658-2071
	Pennoni Associates	C-146 B	B.Hanson	800-775-9414
	Penncora, Inc.	754	W.Capper .	610-277-2402 277-7449
	Pergamon Corporation	C-168	B.Bater-Kenrus	610-337-1402* 337-1407
	Pergine's Produce	C-174	J.Altman	610-239-0721*
	Phoenix Corp.	G-103	J.Pergine	610-2726564*
p.inte	- Printers' Printer	G-101	L.Braunstein	610-275-6820 275-6822
	Protection One Alarm	M-155	P.Hasler	610-279-9195 279-7184
	Quigley Crucible	M-9	D.Gey	610-272-8098
	Renu Electronics	A-101	J.Quigley	610-272-5450 272-5580
		J-220	J.Hadick	610-239-7363 239-7365
	Restoration Station	C-177	S.Lyall	610-279-9181 215-491-3102*
	Robinson Steel Co.	M-3	B.Flint	610-279-6600 279-6646
uchina	Rose Line, Inc.	J-227	A.Nadler	610-277-3551 277-3554
shap	Salmons Tool & Machine	C-131	M. Salmons	610-279-7102 272-6778
610.01	Savoy Company	J-230	P.Porter	610-667-8608*
	Seaquay Architectural Millwork	C-221	L.Knowles	610-279-1201 279-4896
	Sherman & Gosweiler Funden		C.Sherman	610-270-0825 270-0826
	Steel's Gourmet Sauces	D-175	J.Steel	610-277-1230 277-1228
	Sweetzels, Inc.	C-201	B.Borzillo	610-277-6770 277-6569
	Tech-Pack	M-7	A.Spoont	610-275-7225 275-7951
	TriState C&I Assn of Renltors	A-201	A.Esposito	610-239-7470 239-7472
	U.S.Equipment Brokers	C-188	H.D'Amato	610-275-1002**
	Valley Forge Candle	C-185	M.McCabe	610-277-6770 277-6569
	Window Associates	J-127	J.Smith	610-292-1996* 292-0872
	Wire Crafters, Inc. Off Premises Telephone	C-191	F.Fullam	610-272-1184 272-4484
	· · · · · · · · · · · · · · · · · ·	*Sub-Tenant		

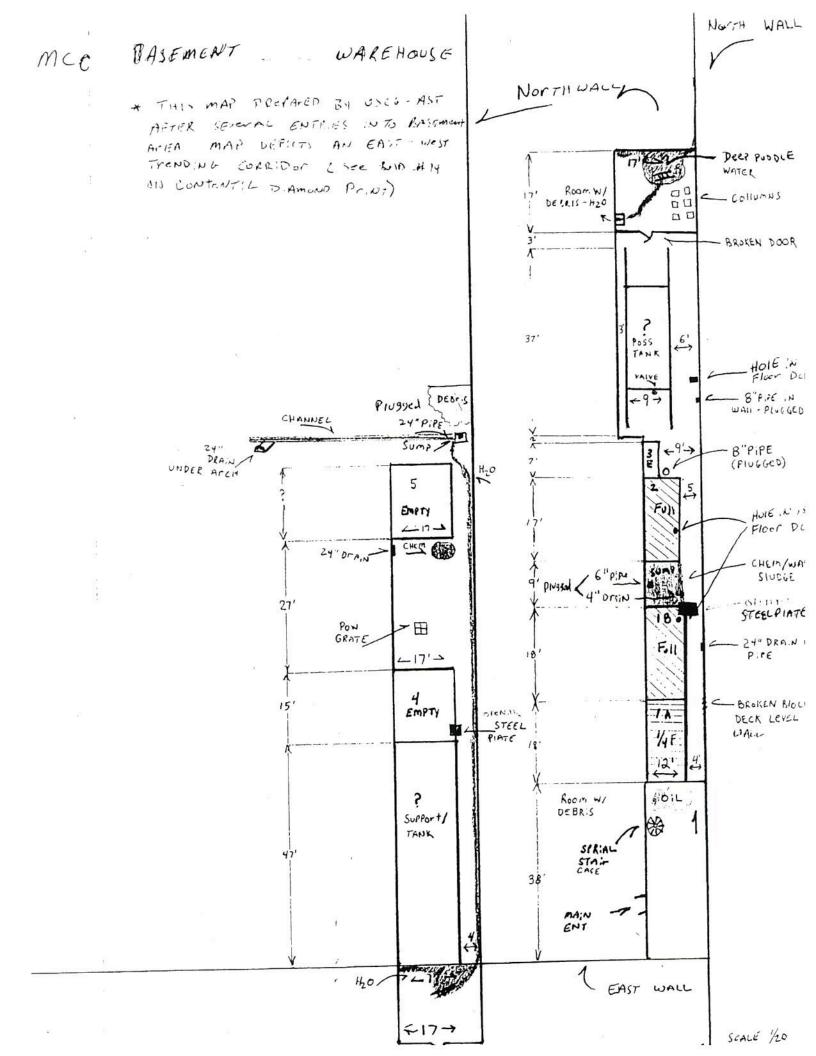
Print

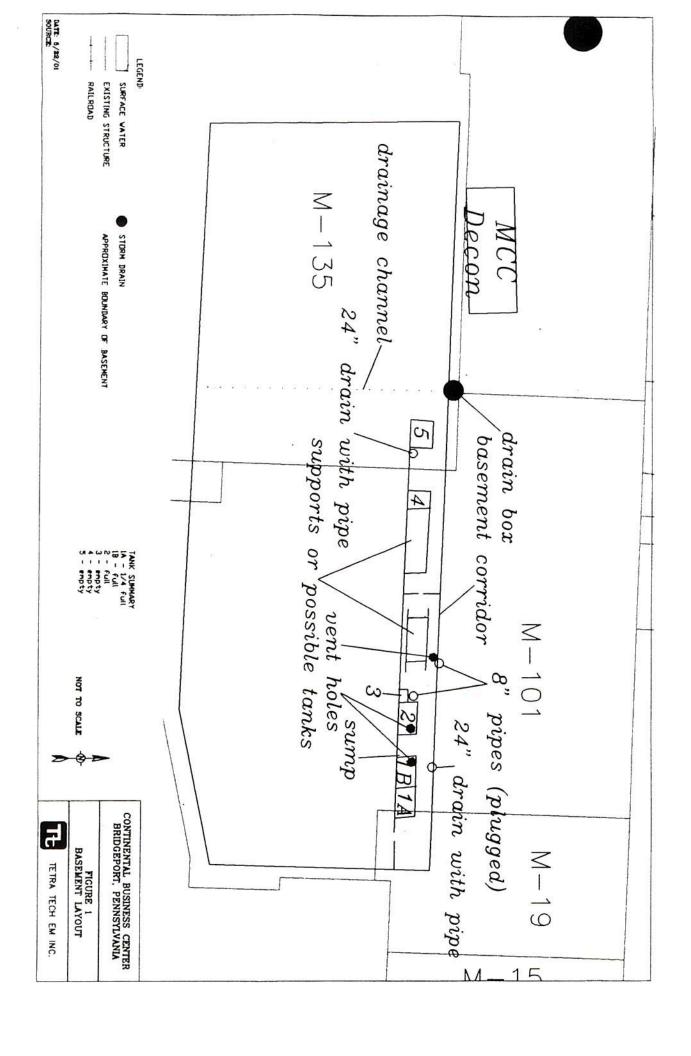
fluids

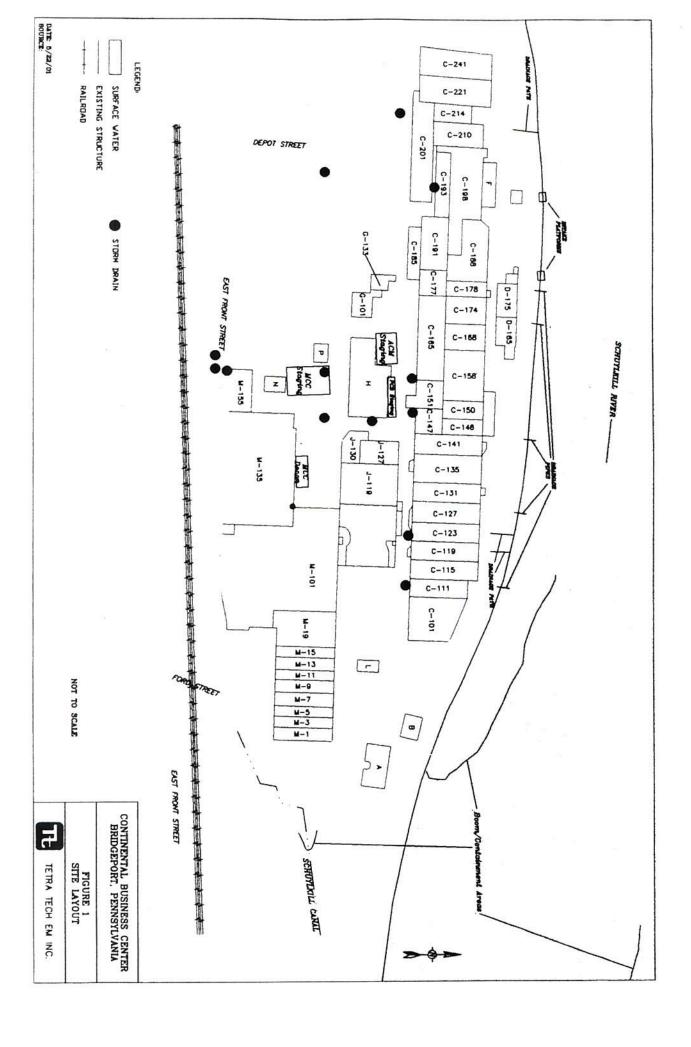
CONTINENTAL BUSINESS CENTER TENANTS LOST IN FIRE 15-May-01

SQ FT	UNIT	TENANT	KEY	
15,760	C-193/201	ARB BREADCRUMBS, INC.		1 breadcrumb mfg
2,886	M-11	BRUNNER & LAY		mining/constaction tools
3,600	J-130	CENTEX ENVIRONMENT		mining/construction tools office 9 storage & window treatments furniture carpet sauces / food products
36,940	J-119	CHAIN MAR FURNITURE		furniture (carpet
4,100	D-175	CLACK STEELE	5	sauces/Good products
1,700	J-307	COLONIAL ELECTRIC	6	electric supply equipment raccessories
2,850	M-13	DOVAR	7	mechanical contracting
34,470	C-111	GEORGE SUPPLY	8	automotive supply of
4,400	C-151	KEYSTONE SUPPLY	9	industrial supplies & safety equip
12,000	C-119	LABEL RITE /	10	printing of labels
11,300	C-135	LEAGUE WEAR	11	printing of labels clothing
17,420	J-301	LITTLE SOULS	12	dolls
3,600	C-147	MAIN LINE LAWN SERVICE	O 13	dolls lawn + tree sucs - pesticides ? Warehousing / It mfg. (comprehensive) mfg + application of ceramic countries
90,411	M-101	MCC WAREHOUSING	14	warehousing / It mig (10 pients
10,700	C-127	MCC, INC.	O 15	mfg + application of ceramic country's
3,600	C-150	ML FLOORCOVERING	16	caspet
1,000	J	NIKOBENET, INC.	17	Gixtures/hurnishings
6,200	C-146	PANTHER PRODUCTS EAST	18	Commercial rooking ego
6,000	C-158	PENNCORA PRODUCTIONS	19	carpet fixtures/hurnishings commercial rooting equipment production props -any printing shop - no chamical release
6,827	M-155/145	PRINTERS PRINTER	◆ 20	printing shop - no che mice a lease
3,200	M-9	PROTECTION ONE	21	s armuce
10,888	J-220	RENU ELECTRONICS	22	computer equipment
3,600	C-185/7	RESTORATION STATION	O 23	restriction of farniture
2,035	J-227	ROSE LINE, INC.	24	
6,000	C131	SALMONS TOOL & MACHINE	25	machines hop cabinet + carpentry
10,800	C-165	SHERMAN/GOSWEILER	26	cabinet + carpenty
28,968	C-186/198	SWEETZELS, INC.	27	bakery
3,600	C-178	TECH-PACK	28	3 compared
100	J305	TRI STATE C& ASSN PENOM.	29	RECOCOS
3,600	C-185	VALLEY FORGE CANDLE CO	30	candle making
4,007	J-127	WINDOW ASSOCIATES	31	VACANI
7,200	C-191	WIRE CRAFTERS 🗸	32	welding + spray pourting
359,762				Cansol
	ha	verball		bakery computer Recolds candle making VACANT welding + spray painting) cansil spring

DURR Lasley (b) (6)VI frod usus Ed Passaurante (b) (6) to Day. \$3V1S1 · nothick HENCO mos







APPENDIX 2

POSSIBLE MCC WAREHOUSE INVENTORY

HAZARDOUS SUBSTANCE GURVEY FORK HAZ-BRUDG

NOO WAREHOUSTING INC. 55 E. FRONT ET. HIGI BRIDGEPORT, PA 19405

BRUGOZMANN OHRMICAL CO. PESSE AVENUE SHITE BUT MENTOWN SQUARE PA INOTA

JANUARY-DECEMBER SOOF

ED McDade 610353-9852

FASE

PRODUCT & HAZ INGSEDIENTS Figh hiel

The said of the said

105-60-2 2123-24-2

832-04-0

BRUGGOLEN C BO CAPROLACIAM

CAPROLCATAM HEXANDI-ISOC

PREPOLYMER

HEXAMETHYLENE-1 6-DI-ISOCYANATE (HDI)

105-60-2 5888-97-9

822-04-0

BRUGOLEN COOP CAPROLACTAM

CAPROLACTAM HEXANEDI-ISOCYANATE ISOCYANATE-PREPOLYMER

HEXAMETHYLENE-1 6-DI-ISGCYANATE (HDI)

872-50-4

BRUGGOLEN C230 ALIPHATIC POLYISOCYANATE 1-METHYL-2PYRRO-LIDINONE

HEXAMETHYLENE L 6-DI-1880YANATE (HDI)

BRUGGOLEN C540

* Writhut

XX

CONFIDENTIAL COMFIDENTIAL 4485-12-5 882-06-0

BRUGGOLEM F10 POLYMER HDI BASED POLYMER

LITHIUM STEARATE HEXAMETTHYLENE-1 4-DI-ISDOYANATE 40,5%

CONFIDENTIAL

BRUGGOLEM Fie ALKYPHENOL DERIVATIVES TRIAZINE DERIVATIVES

BRUGGOLEN FIRE CONFICENTION ALKYPHENOL DEDIVATIVES COMPTORMINAL TRIAZZUE DEMINATIVES

COMETTENTION.

	CONFIDENTIAL 7757-83-7 7738-18-5	BRUGGOLITE FF5 SODIUM SALTS OF SUBMITTED SULFUR-OXY ACETIC ACIDS SCDIUM SULFITE MATER	7
	13708-85-5	BRUGGOLEN H-15 PHOSPHONIC ACID DISODIUM BALT	
		PRUGGOLEM H-11	£
	COMFIDENTIAL COMFIDENTIAL COMFIDENTIAL	SUBSTITUTED AMIDE	
	CONFIDENTIAL CONFIDENTIAL CONFIDENTIAL	BRUGGOLEN H12 FHOSEHONIC ACID DERIVATE ESTER STRICTLY HINDRED PHENOL DERIVATE	X
		BRUGGOLEN 1113	
	COMFIDENTIAL CONFIDENTIAL	BRUGGOLLEN H14 INGGANIC FATTY ACID SALT STERICTLY HINDERED PHENOL DERIVATIVE ALKALI SALTS OF PHOSPHINIC &	Mado Guer
3)	CONFIDENTIAL -	DERIVATIVE ALKALI SALTS OF PHOSPHINIC & PHOSPHONIC BRUGGOLEN H20 N.N-DIPHENYL-1 4.PHENYLENEDIAMINE 30% CONTROLLINE BASED FOLYMER 15%	(1) (1)
(3)	CONFIDENTIAL CONFIDENTIAL	BRUGGOLEN H21 QUINOLINE BASED FOLYMER PHOSPONIC ACID SALT 10%	hat X X
	7758-02-3 142-71-2 7631-96-9 7440-50-8	BRUGGOLEN H30 POTASSIUM BROMIDE CUPRIC ACETATE SILICON DIDXIDE (COPPER COMPOUND) BPUGGOLEN H40 SUBSTITUTED PHENOL	X X
	COFIDENTIAL	BPUGGOLEN H40 SUBSTITUTED PHENOL Work and action	> Charles and
	2:570-04-4	SPUGBOLEN H41 TRIS(2 A-TERT-BUTYL FRENVL) FROSHTE	col vor

CONFIDENTIAL CONFIDENTIAL	DERIATIVE ORGANOPHOSPHITE DERIVATE	¥
COMPIDENTIAL	ERUGGOLEN H161 STERIC HINDERED FHENGL DERIVATE ORBANOPHOSFHITE DERIVATE	*
	PRUBBOLEN M165 MIXTURE OF ORBANIC ANTIOXIDANTS PHOSPONIC ACID DISODIUM SALT	
CONFIDENTIAL CONFIDENTIAL	BRUDGOLEN H164 MIXTURE OR ORGANIC ANTIOXIDANTS PHOSPHONIC ACID DISODIUM SALT	
COMFIDENTIAL	BRUGGOLEN H175 STERICLY HINDERED PHENOL DERIVATIVE ORGANOPHOSPITE DERIVATIVE FATTY ACID ESTER	×
COMFIDENTIAL 7591-55-4	BRUGGOLEN VP H 320.321.322.323 POTASSIUM BROMIDE POTASSIUM HALOGENIDE CUPROUS IODIDE (COFFER COMPOUND) FATTY ACID DERIVATES	Х
E5038-54-4 CONFIDENTIAL 7440-50-8	BRUGGOLEN H350 POLYAMIDE -6 COPPER COMPLEX COPPER	
CONFIDENTIAL 7/440-58-0	BRUGGOLEN H 3212.3345 WAXES COPPER & HALOGEN COMPOUNDS COPPER	X
COMFIDENTIAL 25038-54-4 COMFIDENTIAL 7440-50-8	BRUGGGLEN H333 COPPER TRIPHENYLPHOSPHINE COMPLEX BRUGGOLEN H 3504 POLYANIDE-6 COPPER % HALOGEN COMPOUNDS '*	Χ
	EPUGGGLEN HR505	χ

25038-54-4 CONFIDENTIA	POLYAMIDE-6.66 COPPER &HALOGEN	
054035 54 4 CONFIDENTIAL 7449-50-0	BRUGGOLEN H3622 FOLYAMIDS-46 COPPER &HINDERED AMINE COMPOUNDS COPPER	
CONFIDENTIAL	BRUGGOLEN L11 FHOSPHONIC ACID.SALT FATTY ACID ESTER OPTICAL BRIGHTNER	
CONFIDENTIAL	BRUGGOLEN L12 STETIC HINDERED PHENOL DERIVATES OPTICAL BRIGHTENER FHOSPHONIC ACID SALT	4
	BRUGGOLEN L20 ESTER PHOSPHITE DERIVATE	X
CONFIDENTIAL 7631-86-9 103-23-1	BRUGGOLEN MIO CARBOXLIC ACID DERIVATIVE SILICON DIOXIDE HEXAMEDIDIC ACID BIS(2-ETYLHEXY)ESTER	×
COMFIDENTIAL 828-06-0	BRUGGOLEN M12 HDI BASED POLYMER HEXAMETHYLENE-1,6 <0,5 DIISOCYANATE	¥ A
25033~54-4	BRUGGOLEN M1251 POLYAMIDE-COPOLYMER	
CONFIDENTIAL CONFIDENTIAL	BRUGSOLEN P12 FATTY ACIDS ESTERS POLYETHYLENE COPOLYMERE	
125542-74-7 93743-70-3	BRUGGOLEN P22.P22F POLYAMIDE AMORPHOUS ALUMININA SILICATE	X
CONFIDENTIAL CONFIDENTIAL 78748-70-3	BRUGGOLEN P30 P31 FATTY ACID DERIVATIVE POLYMER AMORPHOUS ALUMINA SILICATE	X
CONFIDENTIAL CONFIDENTIAL	BRUGGOLEN P130 FATTY ACID ESTER POLYAMIDE	¥

CONFIDENTIAL CONFIDENTIAL	PRUBBOLEN FROS FOLYAMIDE FATTY ADID AMIDE		7
COMPIDENTIAL 14807-75-5		i	(S)
MA NA	BRUGGGLEN P 2034 FOLYAMIDE COPOLYMERS MINERALS		(8)
23038-39-7	BRUGGOLEN PET 095 110 POLYETHYLENE TEREPHTHALE		
105-50 8	CAPROLACTUM SOLID		10
CONFIDENTIAL	BRUGGOLEN VF 200 POLYAMIDE		Χ
149-440 497-19-8 50-00-0	BRUGGOLITE C,E01,F.NF.POWDER METHANESULFINIC ACID HYDROXY-SODIUM SALT SGDIUM CARBONATE		
149-44-0 50-00-0	FORMALDEHYDE(RESIDUAL)) BRUGGOLITE EOR POWDER METHANESULSANIC ACID HYDROXY-SODIUM SALT FORMALDEHYDE(RESIDUAL) CAPROLAVAM-HOI POLYMER	g	
149-44-0 · 497-19-8 50-00-0	BRUGGOLITE C.E01,L40 GRANULES METHANESULGANIC ACID HYDROXY-SODIUM SALT SODIUM CARBONATE FORMALDEHYDE(RESIDUAL)		
149-440 50-50-0	BRUGGOLITE EOR GRANULES METHANESULSANIC ACID HYDROXY-SODIUM SALT FORMALDEHYDE(RESIDUAL)		
149-440 497-19-8	HYDROSULFITE AWC GRAN SODIUM FORMALDEHYDE SULFOXYLATE SODIUM CARSONATE		X
1314 -13-2 3486-35-9 2042-58-1 7440-6-6 20427-58-1	ZINC CARBONATE AC 45.100 ZINC DXIDE ZINC CARBONATE ZINC HYDROXIDE ZINC COMPOUNDS		

2042-58-1 1314-27-0 1314-13-2 3486-35-9 7440-66-6 20427-58-1 1314-87-0	ZINC CARBONATE ZINC HYDOXIDE LEAD SULFIDE ZINC COMPOUDS 62% AS ZINC			
7757-82-5	ZINC COMPOUND		180	X
1314-13-2	ZINC OXIDE AC 45,100 ZINC OXIDE . ZINC COMPOUND 80% AS ZINC	(#)		X
1314-13-2 7446-66-6	LEAD SULFIDE ZINC COMPOUNDS 80% AS ZINC LEAD COMPOUND	٠		XX

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HAZARDOUS SUBSTANCE SURVEY FORM HAZ-PENT

MCC WAREHOUSIG INC 55 E.FRONT ST.BLDG M101 BRIDGEPORT PA 19405 Jack Udell Z15-628-9798

PIGNIT & DRY COLOR PENTACHEM. INC 206 WOODED LANE AMBLER. PA 19002

JANUARY THRU DECEMBER 2000

CAS#	PRODUCT & HAZ INGREDIENTS	PHYS & F	
000067-63-0 070693-20-8 000107-21	AEROSOL C-61 SURFACANT ISOPROPANOL OCTADECLAMINE- OCTADECYLGUANDINE POLYOXYETHANOL ETHYLENE GLYCOL	X	Χ.
61791-12-6	ALKAMULS EL-620 CASTOR OIL + 30 EO- POLYETHOXYLATE		X
	3-AMINO-4 METHONY-BENZANILIDE		
5160-02-1 48188-14-7	BARIUM LITHOL(R) 39-MO-2365 C.I.PIGMENT RED 49.1 C.I.PIGMENT RED 53-1 ROSIN BARIUM SALT PETROLEUM HYDROCARBON RESIN DISTILLATES (PETROLEUM)HYDRO-	X	X
64742 -02-0	TREATED HEAVY NAPHTHENIC		
1320-39-8 7647-14-5 7757-82-6 7440-50-8	BASACID BLUE 750 DYESTUFF SODIUM CHLORIDE SODIUM SULFATE COPPER		ХХ
8012-95-1	BASIC YELLOW 29 100% MINERAL OIL		X
5068-39-1 6358-36-7 7647-14-5 9004-53-9	BASONYL RED NB 481 DYE DYE SODIUM CHLORIDE DEXTRIN		X
3048-37-1	BASONYL RED 485 C.I. BASIC RED 1:1		У.
MIXTURE PROPRIETARY 64742-47-8 1330-20-7	BECKOOSL(R) AA-141 ALKYD RESIN MINERAL SPRITS XYLENE	X	X.

100-41-4 103-88-3	ETHYL BENSENE TOLUENE		
17552 -99 -2	SON RUBINE PIGMENT RED 52:1		X
1103-39-5	CALCIUM LITHOL RED PIGMENT RED 49:2		X
67801-01·8	CLAR-ALL RED PIGMENT ORANGE 46		702
71546-54-6	CROMOPHTAL RED 28 BENZOIC ACID 3.3 BIS)IMINOCARBONYL(2-HYDROXY-3 1-NAPHTALENEDIYL) AZO;)BIS(4-METHYL-(1-METHYLETHYL ESTER	t e	
	CYANDAX LTDP ANTIXIDANT		Χ
	CYANOX 277 ANTIOXIDANT	X	Х
	CYASORB UV-3853S LIGHT STABILEZ		Χ
147-14 8	EUPOLEN BLUE 69-8641 PIGMENT PIGMENT POLYETHYLENE COPPER		X
1333-86-4 9002-88-4	EUTHYLENE BLACK 00-6005 C/ CARBON BLACK POLYTHYLENE		Χ
84255-15-2	FLEXO YELLOW 110 LOW DUST BASIC YELLOW 2.NITRATE SALT		XX
	GREEN GR 1028-POLYFLO 029-005		X
147-14-8 7440-50-8	HELIGEN BLUE D 7080 PIGHENT BLUE 15 COPPER COMPLEX IN PIGHENT		
147 -14-8 7440-50-8	HELIGEN PLUE D 7084 DD PIGMENT BLUE 15 COPPER-COMPLEX IN PIFMENT		Χ
574-93-6 30023-13-3	HELIGEN BLUE D 7490 PIGMENT BLUE 16 CHLORG PHTHALOCYANINE		K
574 93 6	HELIGEN BLUE D 7565 FIGMENT BLUE 16		X

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147-14-8 1328-53-6 7440-50-8	HELIGEN BLUE K 6908 PIGMENT BLUE 15 PIGMENT GREEN 7 COPPER-COMPLEX IN PIGMENTS	X
147-14 8 7440-50-8	HELIGEN BLUE K 6911 PIGMENT BLUE 15 COPFER-COMPLEX DUST * MIST	X
147-14-8 7440-50-8	HELIOGEN BLUE K 6912 PIGMENT BLUE 15 COPPER=COMPLEX IN PIGMENT	X
147148 7440508	HELIOGEN BLUE L 6875 F PIGMENT BLUE 15 COPPER-COMPLEX IN FIGMENT	X
147-14-8 1328-53-6 7440-50-8 1333-86-4	HELIOGEN BLUE L 6920 PIGMENT BLUE 15 PIGMENT GREN 7 COPPER-COMPLEX IN PIGMENT CARBON BLACK	×
147-14-8 1328-53-6 7727-43-7 7440-50-8 133-84-4	HELIOGEN BLUE L 6901 F PIGMENT BLUE 15 PIGMENT GREEN 7 BARIUM SULFATE COPPER-COMPLEX IN PIGMENT CARBON BLACK	X
147 -14-8 1328 -53-6 7440-50-8 1333-86-4	HELIOGEN BLUE L 4920 PIGMENT BLUE FIGMENT GREEN 7 COPPER-COMPLEX IN PIGMENT CARBON BLACK	X
147-14-8 7440-50-8	HELIOGEN BLUE L 6930 PIGMENT BLUE 15 COPPER-COMPLEX IN PIGMENT	X
147-14-8 7439-92-1 1344-28-1	HELIOGEN BLUE L 7072 D PIGMENT BLUE 15 LEAD (AS THE ELEMENT) ALUMINUM OXIDE	. X X
147-14-8 7440-50-8	HELIOGEN BLUE L 7080 PIGMENT BLUE 15 COPPER-COMPPLEX IN PIGMENT	×
	HELIOGEN BLUE L 7101 F PIGMENT BLUE 15 COPPER-COMPLEX IN FIGMENT BARIUM SULFATE	ΧX

574-93-6 / 30023-13-3	HELIOGEN BLUE L 7560 PIGMENT BLUE 16 CHLORG PHTHALOCYANINE		X
147-14-8 1328-53-6 1332-58-7 1333-86-4			X
1928 -53-4 7787-43-7 7440-50 -8 1333-86-4	BARIUM SULFATE COPPER-COMPLEX IN PIGMENT		Х
7440-50-8 7727-43-7	HELIGEN GREEN L 8730 PIMENT BLUE 15 PIGMENT GREEN COPPER-COMPLEX IN PIGMENT BARIUM SULFATE CARBON BLACK		X
14802-13-7 7727-43-7 7440-50-8			X
12286-65-6	HEUCO YELLOW 104100		X
12656-85-8 7631-86-9 1047-16-1 3089-17-6 7439-92-1 7440-47-3 7440-36-0	"KROLOR" RED PIGMENTS (KR-980-D, KR-981-D) SILICA ENCAPSULATED RED PGMT 104 (CONTAINS LEAD CHROMATE) AMORPHOUS SILICA PIGMENT VIOLET PIGMENT RED 202 LEAD CHROMUIM ANTIMONY	×	X
1344-37-2 7531-86-9 116565-74-3	"KROLOR" YELLOW-908 D PIGMENT YELLOW 34 AMORPHOUS SILICA PIGMENT YELLOW 34		
	LITHOL FAST MAROON L 4763 BARIUM SULFATE MANGAHESE RESINATE PIGMENT RED 52:2 PIGMENT RED 63:2 MANGANESE		×χ
	LITHOL FAST SCARLET L 4300		X

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7439-96-5 7727-43-7	PIGMENT RED 48:4 MANGAMESE-COMPPLEX IN POMNT BARIUM SULFATE TITANIUM DIOXIDE	
1332-58-7 5261-04-9 9007-13-0	LITHOL RUBINE D 4566 DD KAOLIN (PGMT WHITE 17) PIGMENT RED 57:1 CALCIUM RESINATE	X
5281 04-9	LITHOL RUBINE FIGMENT RED 57:1	X
	LITHOL SCARLET NBD 4455 RICINOLEIC ACID PIGMENT RED 48:2 PIGMENT RED 48:3	X
1333-86-4 7732-18-3 25265-71-8	LUCONYL BLACK 0066 CARBON BLACK WATER 1.2-ETHANEDIMINE POLYMER W/METHYLOXIRANE & OXIRANE	ХХ
980-24-7 7732-18-5 24108-89-2 25245-71-8 24314-40-5	LUCONYL RED 3870 PIGMENT RED 122 WATER PIOMENT RED 123 DIPROPYLENE GLYCOL 1,2-ETHANEDIAMINE POLYMER W/METHYLOXIRANE & OXIRANE	X
H	LUCONYL YELLOW 1916 DIETHYLENE GLYCOL WATER PIGMENT YELLOW 42	XX
4538-31-2 9007-13-0 48187-74-8	LUNA YELLOW NBL 1277 PIGMENT YELLOW 7/ CALCIUM RESINATE CASTOR OIL, SULFATE, SODIUM SALT	X
9003-54-7 26299-47-8	LURAN S 797 SE UV NATURAL, ASA COPOLYMER STYRENE ACRYLONITRILE COPOLYMER BUTYLACRYLATE STYRENE ACRYLONITRI ()LE COPOLYMER	Χ
9002-88-4	LUWAX AF31 POLYETHYLENE	X
0.	LUWAX ALB POWDER	X

	9002-88-4	POLYETHYLENE	
	9002 -88 -4	LUWAX AI13 ETHENE,HOMOPOLMER	X
	9003-07-0	LUWAX 9675 WAX POWDER 1-PROPENE, HOMOPOLYMER	X
	58441 · 17 · 8	LUMAX OA PASTILLES GXIDIZED POLYETHYLENE	χ
	7007-13-0 71503-48-6 1047-16-1 1503-48-6 5862-98-4 7007-13-0	MAROON RT-792-D CALCIUM RESINATE GUINACRIDONEGUINONE GUINO(2,3-B)ACRIDINE 7. 14-DIGNE, 5,12-DIHYDRO- GUINO(2,3-B)ACRIDINE 6.7,13,14 (5H,12H)-TETRONE GUINO(2,3-B)ACRIDINE-7,14-DIGNE, 5,6,12,13-TETRAHYDRO RESIN ACIDS AND ROSIN ACIDS. CALCIUM SALTS	X
	50-00-0 111-42-2 540-69-2 7732-18-5 9003-08-1 38640-52-9 64742-46-7	MICRONAL B 50 FORMALDEHYDE DIETHANOLAMINE AMMONIUM FORMATE WATER MELAMINE-FORMALDEHYDE COPOLYMER DIISOFROFYL-NAPHTHALENE DISTILLATES (PETROLEUM), 2, 4, 5, 5, 6, 8	X X
8		NAFHTOL AS-OL	
	PROPRIETARY 7440-47-3	NEOZAPON ORANGE 245 SOLVENT ORANGE 54 CHROMIUM III-AS COMPLEX PIGMENT	X
	80-09-1 75501-78-4 7440-47-3	NEOZAPON ORANGE NB 271 4,4°-SULFONYLBIS-PHENOL SOLVENT ORANGE 20 (A CR+3 COMPLEX DYE)+ CHROMIUM-AS COMPLEX	У
		NEPTUN BLACK X18 POWDER SOLVENT VIOLET 9 ACID YELLOW 36	X X
a a	✓ 4197-25-5 62-53-3	DYE ANILINE $\mu^{\mathfrak{h}}$ $\mu^{\mathfrak{h}}$	ХУ

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1328 51-4 7440-50-8	NEPTUNE BLUE LB 722 SOLVENT BLUE 38 COPPER-COMPLEX IN PIGMENT	X
495-54-5 8012-95-1	NEPTUNE ORANGE BASE 206 LD SCLVENT ORANGE 3 PARAFFIN OILS	X
/ 90 94 8 58080-58-7	NEPTUNE VIOLET BASE NR 604 MICHLER'S KETONE 5.5, DYE > 79	X
5521-31-3 65997-05-9	PALIOGEN MAROON FK 4152 PIGMENT RED 179 ROSIN.POLMERIZED	- >
PROPRIETARY 7440-02-0	PALIOGEN RED L 3675 RED PIGMENT (NI+2 COMPLEX PGMT) NICKEL-COMPLEX IN PIGMENT	X
3049-71-6	PALIOGEN RED L 3910 HD PIGMENT	X
7440-36-0	FALIOTAN YELLOW L 2145 H BARIUM SULFATE PIGMENT YELLOW 139 PIGMENT BROWN 24 CHROMIUM-IN PIGMENT ANTIMONY-IN PIGMENT	* X
7787-48-7 75578-75-5 7440-47-3	FALIBTOL BLACK L 0080 BARIUM SULFATE PIGMENT BLACK 1 CHROMIUM VI-IN PIOMENT	X
74396 -59:-7	PALIOTOL ORANGE L 3952 HD FIGMENT	X
34888 ₍ 99- 0	PALIOTOL YELLOW K 1841 D PIGMENT	X
30125-47-4	FALIOTOL YELLOW'L 0906 HD PIGNENT YELLOW 138	Х
SŁ888-75-0 FROPRIETARY	PALICTOL YELLOW L 1820 PIGNENT YELLOW 139 ADDITIVE	(X)
7727-43-7 36988-99-0	PALIOTOL YELLOW L 2140 HD BARIUM SULFATE PIGHENT YELLOW 139	X
3520-72-7	PERMANENT ORANGE G PIGMENT ORANGE 13	

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7023-61-2 7732-19-5		X
147-14-8 / 7440-50-8 5084-06-4	PIGSMOSOL BLUE 6900 PIGMENT BLUE 15:1 COPPER-COMPLEX IN PIGMENT FORMALDEHYDE- NAFHTHALENESULFONIC	X
147-14-8 1314-23-4	GUICKSPERSE INK BLUE 7149 FIGMENT ZIRCONIUM OXIDE	X X
7727-43-7 26896-20-8 1047-16-1 7439-92-1	NEODECAMOIC ACID PIGMENT VIOLET 19	X
7727-43-7 1047-16-1 7439-92-1 7440-02-0	OUINDO VIOLET RV-6951 BARUIM SULFATE PIGMENT VIOLET 19 LEAD NICKEL	X
5140-02-1	RED LAKE C PIGMENT RED 53:1	×
43088-09-3	RHODAMINE B PMA PIGMENT VIOLET 1	X
5627-12-2 1332-58-7	RHODAMINE YS SMA PIGMENT RED 91:2 KAOLIN CLAY	X
15793-73-4	SICO FAST ORANGE NB D 2851 PIGMENT	X
4535-44-2 7787-43-7	SICO FAST RED L 3855 PIGMENT BARIUM SULFTE	Ž.
5567-15-7 8050-09-7 PROPRIETARY	ROSIN	Z
9468-63-1 7787-43-7	SICO ORANGE L 3052 HD PIGMENT ORANGE 5 BARIUM SULFATE	X

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	67801-01-8 68187-76-8 129218-12-0	SICO ORANGE NB D 2055 PIGMENT (CONTAINS BARIUM) CASTOR OIL ACCESSORY PIGMENT (CONTAINS BARIUM)	
1	2485-85-6 49744-28-7 68187-76-8	SICO RED NBL 3470,3751 - 9/2 PIGMENT RED 3 2-NAPHTHALENOL. >1.4 1-{(4-METHOXY-2-NITROPHENYL)AZO) CASTOR OIL,SULFATED.SODIUM SALT >1.4	. ,
· L	2425 19744-28-7 (68187-76-8	SICO RED NEL 3841 PIGMENT 2-NAPHTHALENGL, 1-((4-METHOXY-2-NITROPHENYL)AZO) >/ CASTOR GIL, SULFONATED, SODIUM SALT > /	Χ.
	1335-30-4 5448-75-7 PROPRIETARY	SICO YELLOW NBD 1360 ALUMINUM SILICATE, HYDRAT PIGMENT YELLOW 14 SURFACTANT	X
7	6358-31-2 7727-43-7 13463-67-7	SICO YELLOW FR L 1252 PIGMENT YELLOW 74 BARIUM SULFATE TITANIUM DIOXIDE	X
	.8187-51-9 0	SICOPAL BROWN K 2595 PIGMENT BROWN 31 ZINC COMPOUNDS	X
	2737-27-8 440-47-3	SICOPAL BROWN K 2795 PIGMENT CHROMIUM III-IN FIGMENT	Χ
10 70	4059-33-7 344-28-1 758-87-4 779-90-9	SICOPAL YELLOW L 1100 PIGMENT YELLOW 184 ALUMINUM BXIDE CALCIUM PHOSPHATE ZINC PHOSPHATE	X
14	9565-96-3 059-33-7 :39-96-7	SICOPAL YELLOW L 1110 BISMUTH MOLYBDATE BISMUTH VANADATE MOLYBDEUM-IN PIGMENT	Χ
13	64-38-3 545-94-3 059-33-7	SICOPAL YELLOW L 1112 CERIUM DXIDE BISMUTH MOLYBDATE BISMUTH VANADATE MOLYBDEUM-IN PIGMENT	X
•		SICOPLAST BLUE 48-0850	Х

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147-14-8 7440-50-8 1314-35-8 1345-14-0 7440-46-4	(A CU+2 COMPLEX PIGMENT) COPPER-COMPLEX IN PIGMENT	
3664-99-1	SICOPLAST V BROWN 39-0480 PIGMENT BLUE 15:1 COPPER-IN PIGMENT ADDITIVE PIGMENT YELLOW 164 MANGANESE-IN PIGMENT ANTIMONY-IN PIGMENT	X
3049-71-6 48187-51-9 20	SICOPLAST RED 32-1720 PIGMENT RED 178 PIGMENT YELLOW 119 ZINC COMPOUNDS	X
7440-02-0 7440-36-0	SICOPLAST RED NB 36-0330 PIGMENT YELLOW 53 NICKEL-IN PIGMENT ANTIMONY-IN PIGMENT PROPRIETARY ORANGE PIGMENT	Х
5521-31-3 3007-18-9 7440-36-0 7440-08-0	SICOPLAST RED 37-0270 PIGMENT RED 179 PIGMENT YELLOW 53 ANTIMONY & COMPOUNDS (AS PIGMENTS) NICKEL COMPOUNDS (AS PIGMENT)	. X
	SICOPLAST RED NB 37-0280 PIGMENT RED 178 BARIUM SULFATE PIGMENT BROWN 24 ANTIMONY-IN PIGMENT CHROMIUM-IN PIGMENT	. X
8007-18-9 7440-02-0 7440-36-0 65212-77-3	SICOPLAST YELLOW NB 19-0720 PIGMENT YELLOW 53 NICKEL-IN PIGMENT ANTIMONY-IN PIGMENT PIGMENT YELLOW 183	X
7775 50 0 80	SICOR ZNP/S ZINC CHOSPHATE ZINC COMPOUNDS	X
	SICOTAN YELLOW K 1010.1011 PIGMENT YELLOW 53 NICKEL-IN PIGMENT ANTIMONY IN PIGMENT	X

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9007-18:9 7/40-02-0 7/40-36-0 13530-54-6	SICOTAN YELLOW L 1018 PIGMENT YELLOW 53 NICKEL-IN PIGMENT ANTIMONY-IN PIGMENT ALUMINUM MONOHYDROGEN PHOSPHATE BIS (3-AMINOPROPYL) ETHYLENEDIAMINE	8
48184-70-3 7440-47-3 7440-34-0	SICOTAN YELLOW L 1910 K 2601 NBK 2080 FG PIGMENT BROWN 24 CHROMIUM-IN PIGMENT ANTIMONY-IN PIGMENT	Х .
13530-54-6 68186-90-3 7440-47-3 7440-36-0	SICOTAN YELLOW K 2107 FG ALUMINUM PHOSPHATE PIGMENT BROWN 24 CHROMIUM-IN PIGMENT ANTIMONY-IN PIGMENT	Х
1309-37-1	SICOTRANS RED K 2819 L 2815,2817,2917 FERRIC OXIDE	X
51274 00-1	SICOTRANS YELLOW L 1915,1915 PIGMENT YELLOW 42	X
81-48-1 128-80-3	THERMOPLAST BLUE 684 DYESTUFF DYESTUFF	×
81-48-1 4708-90-3	THERMOPLAST BLACK X70 DYE DYE	X
4702-90-3	THERMOPLAST YELLOW 104 DYE	X
V41556-26-7 V52919-37-7	TINUVIN 765 BIS(1.2.2.6.6 PENTAMETHYL 4-PIPERDINYL)SEBACATE METHYL 1,2.2.6.6 PENTAMETHYL 4-PIPERIDINYL SEBACATE	Х
	TRANS-OXIDE RED	
	YELLOW 275-0049 (002-026)	
	ZAPON* BLACK X 51	X

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Colormetric Libes arriel HAZARDOUS SUBSTANCE SURVEY FORM HAZ-DUER HOC WAREHOUSIG INC 55 E.FRONT ST. MICL EGX 17400 BRIDGEFORT PA 19405 PITTEBURGH, PA 15,355 Deboris Eadley DECEMBER 2001 412.929.2300 hm#412-681-1896 CASH . RODUCT & HAZ INGREDIENTS PHYS & MEALTH Should burn up DULAB FLAMEBL**b**C 488 BUSAH 1024 FORMALDEHYDE 7602-90-4 1-METHYL-9,5,7-TRIAZA-▶1-AZGNIATRICYCLODECANE CHLORIDE BUSAN 1025 5% NAPHTALENE (118 91-20-3 21564-17-0 2-(THIOCYANDMETHYLTHIG) 10 BENZOTHIAZOLE 1,6317-18-6 METHYLENE BIS(THIOCYANATE / 872-50-4 N-METHYL -2-PYRROLIDONE 25 64748-94-5 AROMATIC SOLVENT 46 CORROSIVE BUSAN 1078 2682-20-4 0.35 2-METHYL-4 ISOTHIAZOLIN-3-ONE 26172-55-4 5-CHLORO-2-METHYL-1,15 4-ISOTHIAZOLIN-3-ONE 12 10377-60-3 MAGNESIUM NITRATE BUSAN 11-M1,11-M2 XX 19701-59-2 BARIUM METABORATE MONOHYDRATE BUSPERSE 47 BUTROL 23 1014-10-2 ZINC OXIDE 19701 - 57 - 2 BARIUM METABORATE MONOHIDRATE 1344-37-2 80,000 165 7756-97-6 LEAD CHROMATE 7446-14-2 LEAD SULFINATE 7440-39-3 BARIUM (AS THE ELEMENT) 7440-47-3 CHROHIUM (AS THE ELEMENT) 7439-92-1 LEAD (AS THE ELEMENT) 1344-28-1 ALUMINUM DYIDE **780** 1344-37-8 DCC 1009 XX 7758-97-6 LEAD CHROMATE 7446-14-2 LEAD SULPHATE 7440-37-3 BARTUM (AS THE ELEMENT)

7440-47-3 7485- 52-1 1344-28-1	CHROMIUM (AS THE ELEMENT) LEAD (AS THE ELEMENT) ALUMINUM OXIDE		
7446-14-2 1309-54-4 7440-36-0 7440-39-3 7440-47-3 7439-52-1	DCC 1019 LEAD CHROMATE LEAD SULPHATE ANTIMONY TRIOXIDE ANTIMONY (AS THE ELEMENT) BARIUM (AS THE ELEMENT) CHROMIUM (AS THE ELEMENT) LEAD (AS THE ELEMENT) ALUMINUM OXIDE		X X
7758-97-6 7446-14-2 7440-39-3 7440-47-3 7439-92-1	DDD 1086 1038 LEAD CHROMATE LEAD SULPHATE BARIUM (AS THE ELEMENT) CHROMIUM (AS THE ELEMENT) LEAD (AS THE ELEMENT) ALUMINUIM GXIDE		XX
7758-97-6 7446-14-2 1309-64=4 7440-36-0 7440-39-3 7440-47-3 7437-92-1	DCC 1034 5035 LEAD CHROMATE LEAD SULPHATE ANTIMONY TRIOXIDE ANTIMONY (AS THE ELEMENT) BARIUM (AS THE ELEMENT) CHROMUIM (AS THE ELEMENT) LEAD (AS THE ELEMENT) ALUMINUM OXIDE		XX
7758-97-6 7744-16-2 7744-47-3 7439-92-1	DCC 1077 1080 Y-958-LD LEAD CHROMATE LEAD SULPHATE CHROMUIM (AS THE ELEMENT) LEAD (AS THE ELEMENT) ALUMINUM OXIDE BARUIM (AS THE ELEMENT)		ХХ
7758-97-6 7446-14-2 1309-64-4 7440-36-0 7440-39-3 7440-47-5 7439-92-1	BARIUM (AS THE ELEMENT) CHROMUIM (AS THE ELEMENT		X X
2512-29-0	DCC 1104	7	
52320-64-8	DCC 1112	. 7	

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6588-84-3	DCC 1114	X	
6528-94-3	DCC 1115	X	
6585-34-9	DCC 1117	X	
6358-31-8	DCC 1120	X	
13515-40-7	DCC 1121	×	
5468-75-7	DGC 1201 1202	2	
6358-85-£	DCC 1205	X	
9567-15-7	DCC 1242 1245	X	4
12286-65-6	DCC 1363		XX
12656-85-8 7758-97-6 7446-14-2	DCC 1606 1607 1608 5610 LEAD CHRCMATE LEAD SULPHATE MOLYBDEUM COMPGUNDS N.O.S.	83.)	XX
1309-64-4 7440-36-0 7440-39-3 7440-47-3 7439-92-1 1344-28-1	ANTIMONY TRIOXIDE ANTIMONY (AS THE ELEMENT) BARIUM (AS THE ELEMENT) CHROMUIM (AS THE ELEMENT) LEAD (AS THE ELEMENT) ALUMINUM OXIDE		
12656-65-8 7758-97-5 7446-14-2 1309-64-4 7440-36-0 7440-39-3	LEAD CHROHATE LEAD SULPHATE MOLYBDENEM COMPOUNDA N.O.S. ANTIMONY TRIOXIDE ANTOMONY (AS THE ELEMENT)		X X
7440-47-3 7439-92-1	SARIUM (AS THE ELEMENT) CHROMUIM (AS THE ELEMENT) LEAD (AS THE ELEMENT) ALUMINUM OXIDE		
7446-14-8 7446-47-8	DOC 1622 1623 1624 YE-941-LD LEAD CHROMATE LEAD SULPHATE MOLYEDERUM COMPOUNDS NOS CHROMUIM (AS THE ELEMENT)		XIX
1944-28-1	LEAD (AS THE ELEMENT) ALUMINUM OXIDE		
3520-72 7	DCC 1802	W.	
4505-28-G	DCC 1818	ž	
2425-85-6	DCC 2822 2854	¥	

1103-39-5	DCC 2303 2304	7:	
1103-39-4 7440-39-3	DCC 2318 BARIUM (AS THE ELEMMET)	ž	
5160-0 2- 1 7744- 3 9-3	DCC 2520 BARIUM (AS THE ELMENET)	У.	
1844-87-2 7758-97-6 7446-14-2 7440-89-8 7440-47-3 7459-92-1	DCC 2609 LEAD CHROMATE LEAD SULPHATE BARIUM (AS THE ELEMENT) CHROMUIM (AS THE ELEMENT) LEAD (AS THE ELEMENT)		ХХ
5281-04-9	DCC 2720	Χ	
5281-04-9	DCC 2728 LITHOL RUDINE		
7023-61-2 .	DCC 2751	X	
17852-99-2	DCC 2778	X	
7565-41-3 7440-39-3	DCC E780 BARIUM (AS THE ELEMENT)	χ	
2786-76-7	DCC 2870 7170	χ	
12456-85-8 7758-97-6 7446-14-E 1309-64-4 7440-36-0 7440-39-3 7440-47-3 7439-92-1 1344-28-1	DCC 5510 LEAD CHROMATE LEAD SULPHATE MOLYBDENUM COMPOUNDS N.O.S. ANTIMONY TRIOXIDE ANTIMONY (AS THE ELEMENT) BARUIM (AS THE ELEMENT) CHROMIUM (AS THE ELEMENT) LEAD (AS THE ELEMENT) ALUMINUM GXIDE		ХХ
12236-31-2 7435- 56-5	DCC 6005 MANGANESE (AS THE ELEMENT)	X	
18836-68-3	DCC 7035	x	
4358-31-2	DCC 7074	X	
7,446-14-2 7446-19-3 7440-39-3 7440-47-3	DCC 9145 LEAD CHROMATE LEAD SULPHATE BARUIM (AS THE ELEMENT) CHROMUIM (AS THE ELEMENT) LEAD (AS THE ELEMENT)		XX

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7758-97-4 7446-14-2 7446-39-3	KY 787D 795D 907D LEAD CHROMATE LEAD SULPHATE BARIUM (AS THE ELEMENT) CHROMIUM (AS THE ELEMENT) LEAD (AS THE SLEMENT)	Ø :
7758 97-6 7446-14-2 7440-39-3	KY 780D 781D 900D LEAD CHROMATE LEAD SULPHATE BARIUM (AS THE ELEMENT) CHROMUIM (AS THE ELEMENT) LEAD (AS THE ELEMENT)	Х
18656-85-8 7758-97-6 7446-14-2 1309-84-4 7440-36-0 7440-39-3 7440-47-3	KO 786D 789D 906D 909D LEAD CHROMATE LEAD SULPHATE MOLYBOENUM COMPOUNDS N.O.S. ANTIMONT TRIOXIDE ANTIMONY (AS THE ELEMENT) BARIUM (AS THE ELEMENT) CHROMIUM (AS THE ELEMENT) LEAD (AS THE ELEMENT)	XX
1344- 37-2 7758-97-6 7444-14-3 7440-39-3 7440-47-3 7+39-92-1	KY 790D LEAD CHROMATE LEAD SULPHATE BARUIM (AS THE ELEMENT) CHROMIUM (AS THE ELEMENT) LEAD (AS THE ELEMENT)	ХХ
1344-97-8 7758-97-6 7445-14-8 7+40-39-3 7410-47 3 7485-98-1	KY 791D LEAD CHRONATE LEAD SULPHATE BARUIM (AS THE ELEMENT) CHROMIUM (AS THE ELEMENT) LEAD (AS THE ELEMENT)	ΧX
1344-37-0 7758-97-6 7446-14-2 7440=39-3 7440-47-3 7439-92-1 1344-38-1	Y 93SLD 924LD LEAD CHROMATE LEAD SULPHATE BARUIM (AS THE ELEMENT) CHROMIUM (AS THE ELEMENT) LEAD (AS THE ELEMENT) ALUMINUM OXIDE	X X
12656-65-8 7758-97-6 7448-14-2 1309-64-4 7440-36-3 7440-39-3	YE 937LD 998LD 971LD LEAD CHROMATE LEAD SULPHATE MOLEDENUM COMPOUNDS N.O.S. ANTIMONY TRIOXIDE ANTIMONY (AS THE ELEMENT) BARUIM (AS THE ELEMENT)	X X

7440-47 3 7439-92-1 1344-28-1	CHRONIUM (AS THE ELEMENT) LEAD (AS THE ELEMENT) ALUMINUM OXIDE		
7727-43-7	BLANC-FIXE MICRO F N BARIUM SULFATE	X	
141XTURE 15463-67-7 21645-51-2	KEMIRA 220 TITANIUM DIGXIDE ALUMINUM HYDROXIDE	X X	
13455-67-7	KEMIRA 6001 630 TITANIUM DIOXIDE	, X X	
13463-67-7 21645-51 2 7631-86-9 1314-23-4	ALUMINIUM HYDROXIDE	X X -	
1345-05-7	LITOPONE D DS L E ZINC SULFIDES	Z X	ä
1914-98-3	SACTHLITH L HD-S ZINC SULFIDES ZNS	ХХ	

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HAZARDOUS SUBSTANCE SURVEY FORM HAZ-ETS

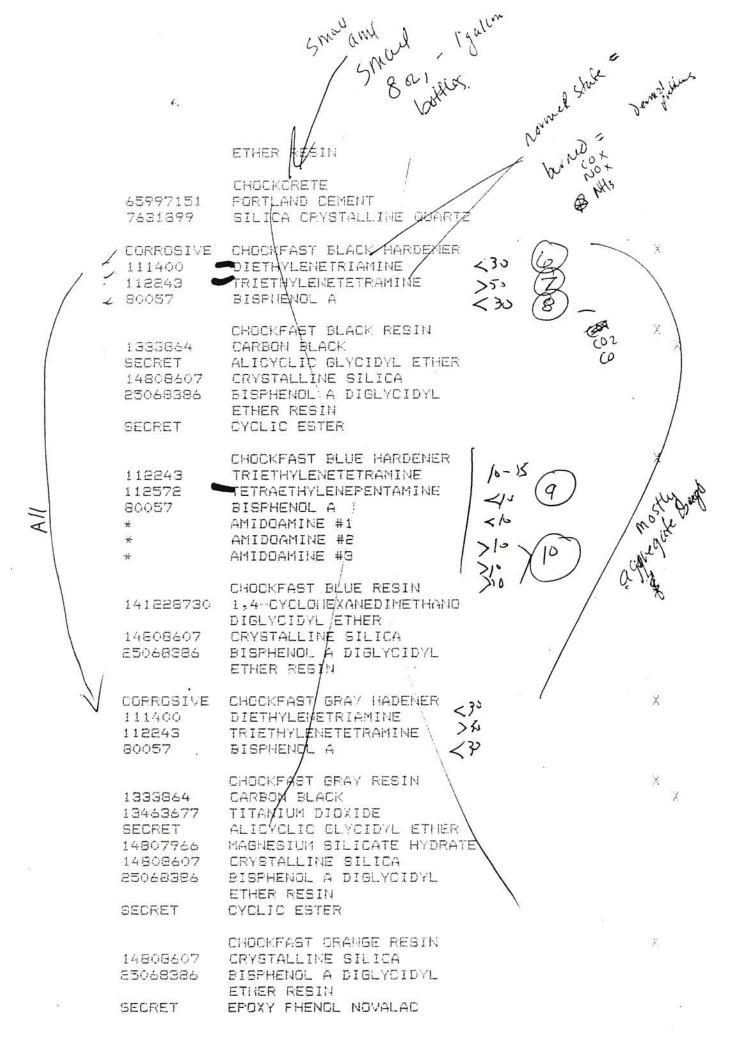
MCC WAPEHOSINGS. INC 55 E. FRONT STREET BRIDGEPORT, PA 19403

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ENERGY TECH SYSTEMS
270 E. LANCASTER AVENUE
FRAZER, PA 19355

JANUARY THRU DECEMBER 2000

	CAS#	FRODUCT & HAZ INGREDIENTS	FITYS & HEALTH F P R I D
	112243 26950630	ANCHOREGLT ADHESIVE HARDEHER TETA, REACTION PRODUCTS WITH PROPYLENE OXIDE	XXX
	14808607 15625895 25069386	ANCHORBOLT ADHESIVE RESIN CARBON BKACK CRYSTALLINE SILICA ACRYLATE MONOMER BISPHENOL A DIGLYCIDYL ETHER RESIN EPICHLOROHYDRIN-POLYGLYCOL REACTION PRODUCT DIBUTYL PHTHALATE	X X X
2	112243	ANCHORFAST HARDENER TRIETHYLENETETRAMINE, TETA ALIPHATIC AMINE ADDUCT	X
	34742	ANCHORFAST RESIN EPOXY RESIN DIGLCIDYL ETHER OF BISPHENGL A DIBUTUYL PHTHALATE, DBP TITANIUM DIOXIDE MICA SILICEOUS MUSCOVITE LIMESTONE SILICA SILICON DIOXIDE EPICHLORHYDRIN POLYGLYCOL REACTION PRODUCT MULTIFUNCTIONAL ACRYLATE MONOMER	X
~	108952 112243 32610778	SUPER CEFAMIC REPAIR PUTTY HARDENER PHENOL TRIETHYLENETETRAMINE FORMALDEHYDE FOLYMER WITH FHENOL & TETA	Х
		SUPER CERAMIC REPAIR PUTTY RESIN ALUMINUM OXIDE BISPHENOL A DIGLYCIDYL	X



	SECRET	RESIN INERT FILLER	
	CORROSI 118243	VE CHOCKFAST ORANGE HARDENER >80 TRIETHYLENETETRAMINE	X
Sch.	/ 112243 112572 #	CHOCKFAST RED HARDENER TRIETHYLEMETETRAMINE TETRAETHYLENEPENTAMINE AMIDOAMINE AMIDOAMINE AMIDOAMINE AMIDOAMINE	Χ
	1330207 25068386	CHOCKAFST RED RESIN XYLENE S BISPHENOL A DIGLYCIDYL ETHER RESIN	X (
	65997173	CHOCKFAST RED AGGREGATE CRYSTALLINE SILICA FIBROUS GLASS - 2-METHOXY-1-PROPANOL	X
	*	ACETATE SATURATED HYDROCARBONS POLYETHER MODIFIED METHLAKYL FOLYSILOCANE COPOLYMER	
	CORROSIVI 112243	E CHOCKFAST RED SG HARDENER >95 TRIETHYLENETRAMINE	Χ
	SECRET 25048384 SECRET:	CHOCKFAST RED SG RESIN TRADE SECRET DILUENT BISPHENOL A DIGLYCIDYL ETHER RESIN TRADE SECRET DILUENT	Х
	14808607 65997176	CHOCKFAST RED SG AGGREGATE CRYSTALLINE SILICA FIBROUS GLASS 2-METHOXY-1-PROPANOL	X
	*	ACETATE SATURATED HYDROCARBONS FOLYETHER MODIFIED METHLALKYL FOLYSILOCANE COFOLYMER	
51)	1 12572 90772	CONCRETE ADHESIVE HARDENER TETRAETHYLEHEPENTAMINE AMIDOAMINE	X
	25043356	CONCRETE ADMESIVE RESIN BISPHENOL A DIGLYCIDYL ETHER RESIN	X

DURASEAL 6000 HARDENER

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2 111400 80057	DIETHYLENE TRIAMINE (DETA) 4,4°-(1 METHYLETHYLIDENE) BISPHENOL A		
* 67430 108101 108883	MODIFIED ALIPHATIC POLYAMINE ISOPROPYL ALCOHOL METHYL ISOBUTYL KETONE TOLUENE	Х	
	EFCOM CARTRIDGE E-6 FESIN EFOXY RESIN DIGLCIDYL ETHER BISPHENOL A AMORPHOUS SILICA SILICON DIOXIDE TALC MAGNESIUN SILISCATE - HYDRATE WITHOUT ASBESTOS TITANIUM DIOXIDE GLASS OXIDE	*	X
	EPCON CARTRIGDE E-6 HARDENER ALPHATIC MERCAPTAN POLYMERCAPTAN AMORPHOUS SILICA SILICON DIOXIDE TALC MAGNESIUM SILICATE-HYRDRATE WITHOUT ASBESTOS GLASS OXIDE CERAMIC POWDER, ALUMINUM OXIDE		X
CORROSIVE / 140318 / 90722	EXPANSION JOINT COMPOUND HARDENER ALL COLORS AMINOETHYLPIPERAZINE 2.4.6TRIS(DIMETHYLAMINOMETHYL) PHENOL		Χ
25048384 V S4852153 SECRET *	EXPANSION JOINT COMPOUND RESIN ALL COLORS BISPHENOL A DIGLYCIDYL ETHER RESIN 4-NONYL-PHENOL CYCLIC ESTER BLOCKED POLYISOCYANATE		X
CORROSIVE 100516 2855132 69727	ACID RESISTANT TROVELABLE FLOOR RESURFACER HARDENER BENZYL ALCOHOL 45-(3) ISOPHORONE DIAMINE >9 SALICYLIC ACID <15	Х	X
SECRET	ACID RESISTANT TROWELABLE FLOOR RESURFACER RESIN EPOXY NOVALAC RESIN		Х
*	NON MELT GREASE MINERAL OIL		¥.

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108938 112243 133384 148084 226107	TRIETHYLENETETRAMINE 4 CARBON BLACK	X
2504838	PHILLYBOND #6 RESIN CRYSTALLINE SILICA B6 BISPHENOL A DIGLYCIDYL ETHER RESIN	me my gener greet.
2504838	FHILLYBOND TA-30 RESIN BISPHENOL A DIGLYCIDYL ETHER RESIN	non maderal x
84742	DIBUTYL PHTHALATE (DEP)	with
* * *	EPOXY RESIN HARDENER EPOXY RESIN HARDENER-FATTY AMIDGAMINE RESIN POLYAMINE ADDUCT MODIFIED POLYAMINE	X
111400	DIETHYLENE TRIAMINE	
2508384 PROP	FHILLYCLAD 33 PRIMER RESIN BISPHENOL A DIGLYCIDYL 3 (ETHER RESIN REACTIVE DILUENT /- 5	11) 814 ×
FROP 100516	FHILLYCLAD 33 PRIMER HARDENER / MODIFIED CYCLOCLIPHATIC POLYAMINE BENZYL ALCOHOL	K, Nyby
> 111400 PROP	PHENOL DIETHYLENE TRIAMINE MODIFIED ALIPHATIC POLYAMINE	
124153348	PHILLYCLAD 200 DECK GRAY AGGREGATE IRON ALUMINUM SILICATE CARBON BLACK	X
21645512 471341	ALUMINUM TRIHVDEATE	X
1328534 13463677 471341 6358312 65997173	FHILLYCLAD 200 GREEN AGGREGATE	X
FLAMMABLE	PHILLYCLAD 200 FESIN	X

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100414 108883 1330207 26471625 *			
/ * 100516 108952	PHILLYCLAD 550 SELF LEVELLING EPOXY HARDENER (ALL COLORS) MODIFIED CYCLOALIPHATIC POLYAMINE BENZYL FHENOL		¥
2508386 PROP	FHILLYCLAD 550 SELF-LEVELLING EFOXY RESIN (ALL COLORS) BISPHENOL A DIGLYCIDYL ETHER RESIN REACTIVE DILUENT		X
14808607 14807966	PHILLYCLAD 550 HIGH DUILD ADDITIVE CRYSTALLINE SILICA MAGNESIUM SILICATE HYDRATE (TALC)		X
9003070	PHILLYCLAD ANTISKID 1000 POLYPROPYLENE		X
1930207 PROF 107982	PHILLYCLAD 1000 CLEAR HARDENER XYLENE EPOXY RESIN HARDENER POLYAMIDE RESIN PROPYLENE BLYCOL MONOMETHYL	X	X
25068385 108101 1330207 107982	FHILLYCLAD 1000 CLEAR RESIN BISPHENOL A DIGLYCIDYL ETHER RESIN METHYL ISOBUTYL KETONE XYLENE PROFYLENE GLYCOL MONOMETHYL ETHER	X	X
107988	PHILLYCLAD 1000 SERIES HARDENER XYLENE BISPHENOL A DIGLYCIDYL ETHER RESIN PROPYLENE GYLCOL MONGETHYL ETHER AROMATIC NAPHTHA	X	X
* 14807745 1330207 107982	PHILLYCLAD 1001 WHITE RESIN POLYAMIDE RESIN AROMATIC NAPHTHA XYLENE PROPYLENE GLYCOL MONOMETHYL ETHER	X	96

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* 647429 133020 134637	PHILLYCLAD 1003 MED GREEN RESIN POLYAMIDE RESIN '54 AROMATIC NAPHTHA '7 XYLENE 67 BARIUM SULFATE	X	X
* 647425; 133020'		×	
2504838 84742	PHILLYCLAD 1775 RESIN BISFHENOL A DIGLYCIDYL ETHER RESIN DIBUTYL PHTHALATE		X
	LE PHILLYCLAD 2001 DECK GRAY RESIN HAZE GRAY RED	X	X
107982 108101 1330207	PROPYLENE GLYCGL MONOMETHYL ETHER METHYL ISOBUTYL KETONE XYLENE		
1333864 14808607 25036253	CARBON BLACK CRYSTALLINE SILICA FOLYMERS OF EPOXY RESIN BISPHENGL A		X
25048384 E8044144	BISPHENOL A DIGLYCIDYL ETHER RESID	•	
4074888	ACRYLIC ACID.2-ETHOXYETHANOL DIESTER		
95636	LIGHT AROMATIC NAPHTHA 1,2,4-TRIMETHYLBENZENE BLOCKED POLYISOCYANATE		
FLAMMABLE 100514 107982	E PHILLYCLAD 2001 HARDENER BENZYL ALCOHOL PROPYLENE GLYCOL MONOMETHYL ETHER		X
108101 1477550 14808607 64742956 95636 * *	METHYL ISOBUTYL KETONE META-XYLENEDTAMINE		X
\rightarrow	FHILLYMASTIC 1768		¥
25045324	PHILLYSEAL R RESIN BISPHENOL A DIGLYCIDYL	X	

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	48409972 *	ETHER RESIN ALIPHATIC GLYCIDYL ETHER ALKYL PHENOL BLOCKED POLY- ISOCYANATE				
	140318 25154523 84742	PHILLYSEAL R HARDENER N-AMINGETHYPIPERAZINE (AEP) NGNLPHENOL DIBUTYL PHTHALTE			N.	
	FLAMMABLE 107982	PRT SOLVENT # 59 PROPYLENE GLYCOL MONOMETHYL ETHER	X	(X	32f
	FLAMMABLE 108101 108883	PRT-60 SOLVENT METHYL ISOBUTYL KETCHE TOLUENE	à		X	
	100414	PROPYLENE GLYCOL MONOMETHYL ETHER	Х		Χ	
	1717006 *.	PR 225 MOLD RELEASE RESIN 1,1 DICHLORD 1 FLUROETHANE OREGANO MODIFIED SILANE			X	
	14828730 14808607	REPAIR COMPOUND RESIN CARBON BLACK 1.4-CYCLOHEXANEDIMETHANOL DIGLYCIDYL CRYSTALLINE SILICA BISPHENOL A DIGLYCIDYL ETHER RESIN			X	X
	14808607 32610778	REPAIR COMPOUND HARDENER TRIETHYLENETETRAMINE TETRAETHYLENEPENTAMINE CRYSTALLINE SILICA FORMALDEHYDE POLYMER W/PHENOL & TETA AMIDOAMINE		धरी	X	X
-	107982 108101 1330207 1333864 14808607 25036253	RUST INHIBITIVE PRIMER HS RESIN PROPYLENE GLYCOL MONOMETHYL EHTER METHYL ISOBUTYL KETONE XYLENE CARBON BLACK CRYSTALLINE SILICA POLYMERS OF EPOXY RESIN & BISPHENGL A DIGLYCIDYL	X			X

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2204414	TOTAL TOTAL WALDING DEHADE	
4074588	ACRYLIC ACID.2-ETHOXYFTHANA	
. 6474895 · 95636 *	DIESTER ELIGHT AROMATIC NAPHTHA 1,2,4-TRIMETHYLBENZENE BLOCKED POLYISOCYANATE	
FLAMMABU 100516 107982	BENZYL ALCOHOL PROPYLENE GLYCOL	Х
108101 1477550 14808607 64742956 95636 * *	CRYSTALLINE STITE	
•	STRIP CAULKING	X
25069386	SUPER ALLOY TITANIUM PUTTY REGIN BISPHENOL A DIGLYCIDYL ETHER RESIN	X
PROP FROP 118843 108958	SUPER ALLOY TITANIUM PUTTY HARDENER MANNICH-BASE ADDUCT OF TRIETHYLENE TETRAMINE & PH POLYAMINE CURING AGENT TRIETHYLENE TETRAMINE FHENOL	X
108558 118243 38410778	SUPER CERAMIC REPAIR PUTTY HARDENER PHENOL TRIETHYLENETETRAMINE FORMALDEHYDE POLMER W/PHENOL & TETA	X
1944291 25068996	SUPER CERAMIC REFAIR PUTTY RESIN ALUMINUM GXIDE BISPHENOL A DIGLYCIDYL ETHER RESIN	X
	SUPER CERAMIC REPAIR LIQUID COLOR ADDITIVE DIACETONE ALCOHOL CARSON BLACK	×
1344281	SUPER CERAMIC REPAIR LIQUID RESIN	X.

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	1422873	0 1.4-6YOLOHEXANEDIMETHANOL		
	1480860	DIGLYCIDYL ETHER CRYSTALLINE SILICA		
		5 BISPHENOL A DIGLYCIDYL		
		ETHER RESIN		
	CORROSI	/E SUPER CERAMIC REPAIR LIQUID		
/	111400	HARDENER DIETHYLENETRIAMINE		X
-0.2	67630	ISOPROPANOL		
	80057			
		MODIFIED ALIPHATIC POLYAMINE .		
	FLAMMABL	E TROWELABLE FLOOR RESURFACER FRIMER HARDENER	Χ	Х
	100414	ETHYL BENZENE	40	
	100514 107982			
	197782	PROPYLENE GLYCOL MONOMETHYL ETHER		
	108952	PHENOL		
	124094	a s o b a matrix mile A Mile		
		XYLENE REACTION PRODUCT OF AMINE.		
		PHENOL & FORMALDEHYDE		
	694837	1,2-CYCLOHEXANEDIAMINE		
	FLAMMABLE	TROWELABLE FLOOR RESURFACER	Χ	X
	100414	PRIMER RESIN ETHYL BENZENE		
	1330207	XYLENE		
	25058384	BISPHENOL A DIGLYCIDYL ETHER RESIN		
	68081845	ALKYL SLYCIDYL ETHER		
		TROWELABLE FLLOR RESURFACER RESIN		X
	SECRET	ALICYCLIC GLYCIDYL ETHER		
	SECRET 25048386	ALIPHATIC GLYCIDYL ETHER		
	-000000	BISPHENOL A DIGLYCIDYL ETHER RESIN		
		SPOUR ARE RESERVED		
		TROWELABLE FLOOR REBURFACER HARDENER		X
1	100516	BENZYL ALCOHOL 3		
. /	L08932 L12243	FHENOL.		
	24094	TRIETHYLENETETRAMINE 1,6-DIAMINOHEXANE		
ć	8479801	REACTION PRODUCT OF AMINE		
. 4	74937	PHENOL & FORMALDEHYDE 1.2-CYCLOHEXANEDIAMINE		
-				
		TROWLEAGLE FLOOR RESURFACER		X
1	4808507	CEMENT AGGREGATE CRYSTALLINE SILICA		Χ
		. 70.00.000.00		A

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APPENDIX 3

ACTUAL MCC WAREHOUSE INVENTORY THREE MAIN CLIENTS

BruggemannChemical U. S., Inc.

Tel: 1-610-353-9852

Fax: 1-610-353-9853

Brüggemann Chemical US

FACSIMILE COVER PAGE

 To: David Burke
 From: Ed Mc Dade

 Fax #: 16108326133
 Fax #: 1-610-353-9853

 Company: PA - DEP
 Tel #: 1-610-353-9852

Subject: Bridgeport Fire - Bruggemann Chemical Inventory @ MCC

Sent: 5/22/2001 at 10:57:28 AM Pages: 1 (including cover)

MESSAGE:

Dear Dave,

Follows are:

- 1) A list of the BruggemannChemical inventory that was lost at MCC. This list shows Item ID, Item Description (basically tradenames), the Count on 5/15 as of the fire, Net Weight (lbs.) of each container, Total Net Weight (lbs.), and the Packaging for each product.
- 2) A drawing of the approximate location of most of the inventory. This is a rough guess from my memory, and Marty Helverson could probably give a better approximation of location since I am not always aware of where some products were stored.

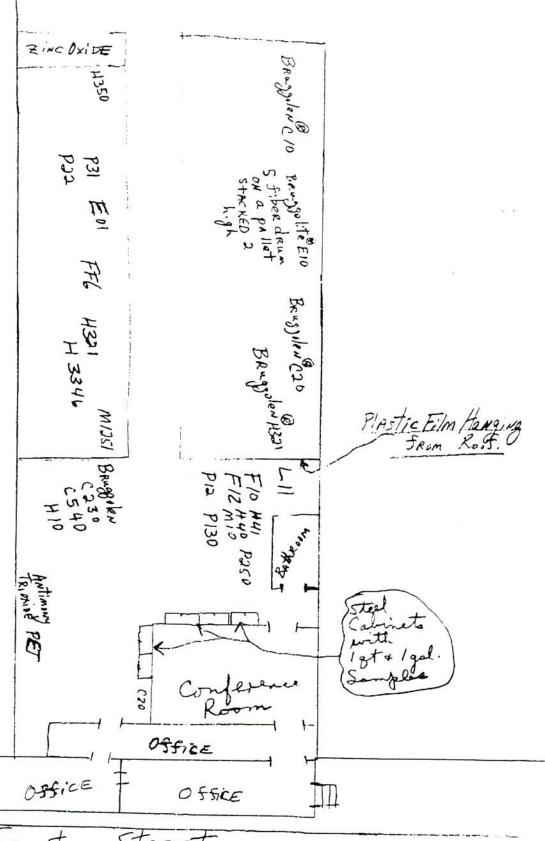
If you need any further help, please call me at 610-353-9852.

Regards, Ed Mc Dade BruggemannChemical U.S., Inc.

WinFax PRO Cover Page

BruggemannChemical US, Inc. Inventory Destroyed at MCC 5/15/01

Item ID	Item Description	Count @	Weight	Total	Packaging
		5/15/2001	lbs	Weight, lbs	
Ant Trioxide MC		38.0	55.0	2,090.0	paper bags
M-C10P	Bruggolen C10 (Plastic drum)	447.0	110.0	49,170.0	plastic drums
M-C10	Bruggolen C10 (Metal drum)	9.0	110.0	990.0	iron drums
M-C20	Bruggolen C20 (Metal drum)	28.0	110.0	3,080.0	iron drums
M-C20P	Bruggolen C20P (Plastic drum)	221.0	154.0	34,034.0	plastic drums
M-C20PA	Bruggolen C20PA	2.0	110.0	220.0	plastic drums
M-C230	Bruggolen C230	41.0	110.0		
M-C540	Bruggolen C540	36.0	110.0		iron & plastic drums
M-F10	Bruggolen F10	1.0	110.0	110.0	iron drums
M-F12	Bruggolen F12	9.0	110.0		iron drums
M-H10	Bruggolen H10	44.0	110.0	4,840.0	plastic & iron drums
M-H11	Bruggolen H11	4.0	110.0	440.0	plastic drums
M-H160	Bruggolen H160	5.0	110.0		iron drums
M-H161	Bruggolen H161	6.0	110.0	660.0	plastic & iron arums
M-H163	Bruggolen H163	5.0	110.0	550.0	plastic drums
M-H164	Bruggolen H164	1.0	110.0		iron drums
M-H175	Bruggolen H175	2.0	110.0		plastic & iron drums
M-H20	Bruggolen H20	3.0	110.0]	plastic drums
M-H320	Bruggolen H320	7.0	110.0		iron drums
M-H321	Bruggolen H321	106.0	220.0		plastic drums
M-H322	Bruggolen H322	1.0	110.0		iron drums
M-H323	Bruggolen H323	5.0	110.0		iron drums
M-H3346	Bruggolen H3346	26.0	220.0		plastic & iron drums
M-H350	Bruggolen H350	5.0	110.0		iron drums
M-H40	Bruggolen H40	1.0	88.0		fiber drums
M-H41	Bruggolen H41	1.0	110.0		fiber drums
M-L11	Bruggolen L11	8.0	110.0		iron drums
M-L12	Bruggolen L12	5.0	110.0		plastic drums
M-M10	Bruggolen M10	10.0	110.0		iron drums
M-M12	Bruggolen M12	2.0	110.0		ron drums
1-M1251	Bruggolen M1251	4.0	110.0		plastic drums
1-P12	Bruggolen P12	5.0	110.0		plastic & iron drums
1-P130	Bruggolen P130	6.0	110.0		fiber drums
1-P22	Bruggolen P22 50 kg	19.0	110.0		
1-P22	Bruggolen P22 40 kg	6.0	88.0		plastic drums
1-P250	Bruggolen P250	7.0	110.0	770.0	plastic drums
1-P31	Bruggolen P31	14.0	154.0		plastic drums
01G MCC	Bruggolite E01 Granules	232.0	250.0		plastic drums
01P MCC	Bruggolite E01 Powder	250.0	250.0	58,000.0	
1-FF6 (S-kg)	Bruggolite FF6 (15kg / 33 lb)	4.0		62,500.0	
1-FF6 (L-kg)	Bruggolite FF6 (80kg / 176 lb)	26.0	33.0		ron kegs
I-PET 1.10	PET 1.10		176.0		iber drums
1-PET 1.10 - 2	PET 1.10-2	6.0	55.0		plastic bags
I-ZCARB RAC	Zinc Carbonate RAC	0.0	1980.0		iber board box
-ZOX AC100	. (플레이크리 (1915년) . : : : : : : : : : : : : : : : : : :	0.0	55.0	10	paper bags
-ZOX AC100	Zinc Oxide AC100	76.0	55.0		paper bags
	Zinc Oxide AC45	38.0	55.0		paper bags
-ZOX RAC 1	Zinc Oxide RAC 1	148.0	55.0		paper bags
F PULVER	NF Pulver	3.0	55.0	165.0 li	
APROLACTAM	Caprolactam	1.0	55.0	55.0 p	lastic bags



FRONT STREET



P.O. Box 17600 • Pittsburgh, Pennsylvania 15235 • 412-829-2300 • 1-800-937-3877 • Fax 412-829-7680

May 17, 2001

Mr. Mike Towle Federal On Scene Coordinator 1650 Arch Street Phildelphia, PA 19103

Dear Mike.

Enclosed you will find the documentation that you requested per our phone conversation on May 17, 2001. We are supplying you with copies of the Material Safety Data Sheets for each product that Durr Marketing Associates, Inc. had in stock on May 15, 2001 at MCC Warehouse at the time of the fire, along with a corresponding stock status report.

Enclosed is a spreadsheet, which identifies the material that could qualify as a SARA 304 CERCLA release, depending on the condition of the material, which is unknown to us at this time.

Should you require additional information, please do not hesitate to contact me.

Debra Ladley

Vice President - Operations

Cc: David Durr - President

Curt Soergel - Vice President - Product Management

Megan Beam - Quality Manager

Note: MSDS now



Contact information for Dorr Narketing office - 412-829-2300 or 800-937-3877

or 800-937-3877 Fax-412-829-7680

Debra Ladley - V.P - Operations.

Office - 412-825-7505

home - (b) (6)

Kurt Soergel - V. P. Product Mont home (b) (6)

Ms. Ladley requested that she be notified when the product at MCC is going to be stabilized, or moved. She will travel to Bridgeport to assist the operation.

(D. Burke - DEP)

ITEMS AT MCC THAT EXCEED CERCLA RQ STOCK IN MCC WAREHOUSE AS OF 5/15/01

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QTY OF POSS. RELEASE	110.00	Ì.	5 445 00	2,000 70	1 320 00	2.145.00	2,112.00	2,120,00	1,113.00	1.775.50	212.00	185.50	1 060 00	1 272 00	1 987 50	1 272 00	4 323 00	3,333.00	1,683.00	2.541.00	7 986 00		1
% OF CAS # IN PROD	5	E RELEASE = 110 LBS	99	99	99	99	99	53	53	53	53	53	53	53	53	53	99	99	99	99	99	99	ASE = 52,004.20 LBS
STOCK AS OF 5/15/01	2,200.00	OUNT OF POSSIBLE NAPHTHALENE RELEASE =	8,250.00	3,031.33	2,000.00	3,250.00	3,200.00	4,000.00	2,100.00	3,350.00	400.00	350.00	2,000.00	2.400.00	3,750.00	2,400.00	6,550.00	5,050.00	2,550.00	3,850.00	12,100.00	12,300.00	AMOUNT OF POSSIBLE LEAD RELEASE = 52,004.20 LBS
CAS#	91203 - NAPHTHALENE	TOTAL AMOUNT OF PO	7439921 - LEAD	7439921 - LEAD ·	7439921 - LEAD	1	7439921 - LEAD	TOTAL AMOUNT OF															
ITEM	BUC 1025TT		DCC 1004	DCC 1606KG	DCC 1606SI	DCC 1622	DCC 1623	DCO KO786D	DCO KO789D	DCO KO906D	DCO KO909D	DCO KY781D	DCO KY788D	DCO KY795D	DCO KY907D	DCO KY908D	DCO YE934LD	DCO YE937LD	DCO YE941LD	DCO YE998LD	DCO Y969DUP	DCO Y969LD	

** QUANTITY OF POSSIBLE RELEASE BASED SOLELY IF THE MATERIAL IS TOTALLY CONSUMED IN THE FIRE

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** PRINCIPAL TOTAL

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	01	N	BUCFBLOC42	8MC	FLAMEBLOC 428 (50#)	3750.00
	01	N	BUC023	MC	BUTROL 023 (50#)	1950.00
	01	N	BUC047	MC	BUSPERSE 047 (400#)	3200.00
	01	Ν	BUC1024	MC	BUSAN 1024(465#PLASTIC DR	1395.00
	01	N	BUC1024TT	MC	BUSAN 1024 (2325#TOTE)	2325.00
	01	N	BUC1025/5	MC	BUSAN 1025 (5 GAL. 35#)	35.00
	01	N	BUC1025TT	MC	BUSAN 1025 (2200#TOTE)	2200.00
	01	Y	BUC1078	MC	BUSAN 1078 (440#DR)	440.00
	01	N	BUC11M1	MC	BUSAN 11M1 (50#)	7500.00
	01	N	BUC11M2	MC	BUSAN 11M2 (50#)	12000.00
					** PRINCIPAL TOTAL	34795.00
	01	Y	DCC1003	MC	MEDIUM CHROME YELLOW 50#	. 00
	01	Y	DCC1004	MC	MED CHR YELLOW (50#/BAG)	8250.00
1	01	Y	DCC1004EV	MC	MED CHR YELLOW (25#EVA)	. 00
	01	Y	DCC1012	MC	MED. CHR. YELLOW E. D. 50#	. 00
	01	Υ	DCC1032	MC	LEMON CHROME YELLOW 50#	. 00
1	01	Y	DCC1034	MC	PRE-DKND LEM CHR YEL #50	. 00
	01	Υ	DCC1077	MC	PRIMROSE CHROME YELLOW50#	. 00
	01	Y	DCC1080	MC	PRIMROSE YELLOW (50#)	. 00
0	01	Y	DCC1091	MC	PRIMROSE SHAD YELLOW 50#	. 00
~	01	Y	DCC1104	MC	HANSA YELLOW G (25#/BAG)	. 00
	01	Y	DCC1112	MC	1112 ORGANIC TRAFFIC (25#	200.00
<u></u>	01	Y	DCC1117	MC	MOD. HANSA YELLOW(25#)	. 00
345.55	01	Y	DCC1242	MC	DIARYLIDE YELLOW (25#)	. 00
						5/4 Veta45-594

DURR MARKETING

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                                                                      BLANC FIXE F (55.115#/BAG
                                     LITHOPONE 30% E (25K/BAG)
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** PRINCIPAL TOTAL
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*** COMPANY TOTAL

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PENTACHEM, INC.

206 Wooded Lane Ambler, PA 19002 _Tel: (215) 628-9798

Fax: (215) 628-0549

E-mail: j_udell@pentachem.com Web Site: www.pentachem.com

ERA-BOB BAUEN/MHE TOWLE 610-832-6133

"ACTUAL INVENTORY "
MCC WAREHOUSE

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Pentachem, Inc.

206 Wooded Lane

Ambler, Pa 19002

INVENTORY OFFERINGS

	January / rep	Jaliuary/ repruary/ March 2001			
PRODUCT	OUANTITY (I BS.)	DALIET #	. 1		
1/2 SEC. N/C SOLN. 190CD162		# LAFEE #	:# ::	TYPE	MFG.
15 SEC. NITRO 190CT031 RC0119	2,409	2,409 pariet # 543			
2:5 DI CHLORO ANILI NE PSC 1285, 41124	1/80,1	1,087 pallet # 124, 125		nitro cellulose	e Hercules
2-NAPHTHYI AMINE DIGITI EONIG AGIS	151	151 pallet # 220		intermediate	
3-AMINOMETHOXY BENZ AMPER SAGE	935/1	935 pallet # 226			
ACRYLOID AT 400 DIVESS	457	457 pallet # 218			
AEPOSII CEI SIIDEI SEE	652	652 pallet # 138		rosin	
AFFI AID 0403	1,003	,003 pallet # 223		Pesin	
AFFI AIR 0206 BLAT COLD THE	25 p	25 pallet # 149		nioment	
AFEL AID 0225 NDS 458 DI TILL T	20 p	allet # 154		nigment	
AFEI AID 0203 NIDG 470	38 p	38 pallet # 145		Town old	
AFEI AID SON	183 p	183 pallet # 154		Pignet a	
ELIAID OFFER PROPERTY	49 p	49 pallet # 145, 150		pignon	
AFEL AIR TOTAL	48 p	46 pallet # 134		pigmont.	
AFFICAIR FOPK402 ND150 RED SL.	15.0	15 nallet # 145		pignient	
AFFLAIR RED PEARL 9215 W.R.	78.7	Office # 440		pigment	
AL. PASTE TUFFLAKE 5343-A	400	Copalier # 149		pigment	
ALKAMULS EL-620	d rc	51 pallet # 142		pigment	
ALKYD RESIN 52-5284 DA1920	354 p	354 pallet # 223			
AI PHA NAPHTOI COOLING	594 pt	594 pallet # 136		resin	
AI PHATEX CLAY CTTOSALECT	486 ps	486 pallet # 219, 220		resin	
ALIMINIM DACTE DASSES	3,000 ps	3,000 pallet #.386, 387			
ALUMINIM PASTE 8271 B72025	55 pc	55 pallet # 142		plament	
ALUMINIM PASTE ORD 8187 D72161	315 pe	315 pallet # 130, 132		plament	
ALUMINIM PASTE OBD 8428 D2225	300 pa	300 pallet # 131		pigment	
ALUMINUM PASTE STAPA VP46433 C	300 pa	300 pallet # 131		pigment	
ALUMINUM SSP-516 AR	227 pa	227 pallet # 137		pigment	
B.O.N. RUBINE RES RN-0420 DC	159 pa	159 pallet # 142		pigment	
	8,300 pa	8,300 pallet # 390-394, 399, 400, 402, 404-406, 408, oil inks	404-406, 408,	oil inks	Magruder
	400 pa	400 pallet # 34		- Comolo	

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BABILIA IT I DI SELLE	Ambler, 4a 19002			
BARIIM LTHOL 39MO2365	130 pallet # 377	P D 40.1	19 7 19 19 19	
BASACIO BILIE 752	4,200	100 00	azo red flush	
CASACID BLUE /50	SE mallet World	. R. P. L.	azo red flush	Magruder
BASACRYL BLUE X	So pallet # 249	D.B. 86	acid dye	BASE
BASANTOL BROWN 268	91 pallet # 157		,	PASE
BASF SAMPI ES 383 6510	20 pallet # 79	A.BR 355	acid due	DACE.
BASIC ZINC CHROMATE	86 pallet # 249		o an mon	BACE
BASO BLIE A46	698 pallet # 147		- Jonesia	DAGE
A SONY PER 32	110 pallet # 78	7 00	maillein.	HASE
BASS SEE 485	55 nallet # 580	4.0.0	ink dye	BASF
BASU RED 481	72		ink dye	BASF
BASO YELLOW 124	110 011		ink dye	BASF
BAY FERROX 180M PIGMENT	1 to pallet # /8		Ink dye	BASF
BECKOSOL AA141 RA-0452	44 pallet # 523, 524			Baver
BF GOODRICH GEON VINYI R18040	- 1		resin	RCI
BLANC FIXE POWNER, F	6,150 pallet # 562, 563, 566			
BLUE	3,452 pallet # 150, 151		filler	
BLUE DVE DCOL 205857857	110 pallet # 41			
LIF PLTUAL OCYANIST STATE	20 pallet # 41, 84			
BON BED 1:01:5 5-	15 pallet # 144			
BUDAT WEELS	125 pallet # 589			Bayer
BURNI UMBER L1232 BATCH 86859	2 000 pallet # 394			
C13B R-4504	400 Hallet # 200		pigment	
CAB 551-0.01 RC0364	- 1			
CAB-381-2 BP RC0388	14 pallet # 129, 136		resin	Fastman
CADMIUM PURE RED 204	50 pallet # 123, 136		resin	Factmen
CADMIUM PURE RED 207	70 pallet # 382		pigment	Lastinai
CADMII M DI IDE DED 280	295 pallet # 383		nomon	
CADMILIM PLIPE VELLOW 455	87 pallet # 383		ojoment	
CADMIUM YELLOW MC 0107	161 pallet # 382		pigment	
CALCILIM 5% TEN CEM	100 pallet # 239		ninment	
CALCIUM LITHOL	258 pallel # 143		drier	
CALCIUM NEODECANOIC DRIFR 5%	006'9		water inks	Magnuder
CALCO CHINOLINE YELLOW SE NEW	292 pallot # 143, 144		drier	
CAPPOXY T IRON OXIDE	20 pallet # 78, 79		solvent dye	
CERAMIC BLACK NO. 1	50 pallet # 525		pigment	
CINQUASIA MAGENTA RT243D	168 pallet # 53, 249 (row # 13)		pigment	
	10 pallet # 154		pigment	

Page 2 of 12

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Page 3 of 12

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COLORRICH BLUE	THE POLICE OF TH	400	pigment	The state of the s
CYANAMID 1 480	8,334 pallet #4 14, 4 13-418, 461, 46/	8, 461, 467, 469, 569		Magnider
	13 pallet # 525			
	440 pallet # 62			C accinom o
CTANOX 2/1/ 035-/7/	120 pallet # 533		taching itae	O'dellogicali Cyanamid
CYANOX LTDP ANTIOX 035-700	55 pallet # 533		alli OXNAIII	Cylec
CYASORB UV 38538 034-032	33 nallet # 631		anti oxidant	Cylec
CYASORB UV3604 LIGHT STAR DS1145	+		light absorber	Cytec
CYMEL 327 RV0741	402 pailet # 122, 12/		light absorber	Cytec
DELAPHOS ZINC PHOEDUATE	17 pallet # 138		resin	
DIARY VELLOM A A OT OVER	2,276 pallet # 148, 155		zinc phosphate	9
DISPERSIAN MACI GY 111	498 pallet # 565			
DISPERS WHILE 0-2207	75 pallet # 53	P.W.B		
DISPERS YELLOW W54 DGC	95 pallet # 157		ענט פטוף טכוח	
DOW CORNING 200 FLUID RW0344	37 5 nallet # 192		. Itan disp pig.	
EM 9231 ND NNP RUT FN GRN WRII	100 pallot 4100		silicone	Dow Coming
ENDUROPHAL BLUE BT 583-D	Oct 1 1 100			Will
ENDURODUIN MAGENTA	420 pallet # 524		pigment	BASF
Z U X	6 pailet # 525		pigment	BASF
FLIPOLEN BLIE AN 2044	315 pailet # 123		solvent	Dow
	35	P.B. 15:1	nan nin	RASE
CUPULEN BLUE 82-2001	20 pallet # 527	1	Dio prop	BAGE
EUPULEN BLUE 69-2041	145 pallet # 360, 527	PR 15-1	rie pie	
EUPOLEN BLUE 89-3001	-1	0 0 45.4	hig. pich.	DAGE
EUPOLEN RED 36-9001	20 hallet # 70	1.Cl .Q. L	pig. prep.	BASE
EUPOLEN SCARLET 44-6101	28 pallet # 19		pig. prep.	BASF
EUPOLEN SCARLET FK3209	110 pallet # 15		pig. prep.	BASF
EUTHYLEN BLACK 00-8005-C4	200 # 151151 # 404		pig. prep.	BASF
F2B R-14322	74 Follot # 101		pigment	BASF
FANCHON YELLOW	40 pallet # 501			
FANCHON YELLOW YH-5770	CZC # 10IIBU OI		pigment	Clariant
FAST SCARLET G BASE 0510270	110 pailet #11		pigment	Clariant
FERROSII 14	- 1		pigment	
FINESCE DED 0 44900	673 pallet # 141, 156		iron oxide	
FI DINK 105 445 (040 050)	75 pallet # 567			
FIEXO BILIE 840	153 pallet # 537		pigment/dye	Radiant
FI EXO YELLOW 405 LOW OF IST	64 pallet # 526, 527		-	BASF
ELEXO VELLOM 440 DOST	45 pallet # 502			BASE
FEETO TELECOVO TIU LOVO DUST	55 pallet # 181	B.Y. 2	lve	RASE

Page 4 of 12

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TLUOKOL VELLONA OBS	44			
200 000	120 natlet # 15 70		pigment	
HELIOCETT STILLS POLYFLO 029-002		S.G. 4	fluoresc. dye	6
HELIOGEN BLUE D7080	73 nollet # 476 For			Magruder
HELIOGEN BLUE D7084	/75 0/4 # Initial C/		Digment	PACE
HELIOGEN BLUE K6811 D	133 pallet # 38, 516 P.B.	B. 15:3	Dioment	BACE
HELIOGEN BLUE K6912D	12 pallet # 475, 477		Digment	1000
HELIOGEN BLUE L2101F	455 pallet # 79, 80, 108, 111, 112, P.B.	B 15-1	Philadella pie	בסאם ב
HELIOGEN BLUE 1 8901		-4	pilliato. pig.	BASE
HELIOGEN BILIE I BOOKE	10 pallet # 528		pigment	BASF
HELIOGEN BUTTET BASS			pigment	BASF
HEI IOGEN BLIFT 60000	10 pallet # 478	B. 15:2	phthalo. pig.	BASF
LOSSSF			pigment	BASF
LELIOGEN BLUE L/080	68 pallet 4476	3. 15:2	phthalo. pig.	BASF
TELIOGEN BLUE L7101F	oo ballel #4/0		plament	RASE
HELIOGEN BLUE L7560	20 pallet # 53, 527 P.B.	3, 15:4	ohthalo pio	BASE
HELIOGEN GREEN K8805	101 pallet # 79, 82, 528 P.B.	3.16	ohthalo oio	2000
HELIOGEN GREEN K8730	BB pallet # 582		niamont .	1000
HELIOGEN GREEN K87307	51 pallet # 475, 477, 527		pigmood	DAGE
HELIOGEN GREEN L8890	181 pallet # 235	7 2	Pignienii	BASE
HELIOGEN GREEN I 8735		- 1	piasuc pig.	BASE
HELIOGEN GREEN 1 9264	33 pallet # 581		pigment	BASF
HEUCO YELLOM 106406 Mag 12.1	86 pallet #473 518 527 550 585		pigment	BASF
HEUCOPHTHAI BILLE DE EX COL			pigment	BASF
BLUE KF B1-627-D	50 pallet # 144		pigment	Heuco Tech
HYDRATED ALLIMINE	361 nallet # 530		pigment	Cookson
MINA	2 300 hallet # 150		vinyl acetate	Dupont
MOJ JAKELLOW	BCI # Jones Cools		aluminum pla	
RGALI E YELLOW BAWP R-5147	270 pallet # 343		2	
RGAZIN BLUE (F2)	/9C # 19IIBC 0+7			
IRON BLUE A328 154	12.5 palle(# 231		Dinmant	, His
IRON OXGED FA7480	06		Digmood .	Cina
RON OXIDE RED EAZABO	110 pallet # 12		DIAMINOI II	
IRON STERATE AMAIN	110 pallet # 109		pigment	
JONCRYI -81 JONCRYI 128	324 pallet # 63		pigment	
080F 000	291 pallet # 22n			
KROLOB BED VE SALE	224 nallet # 531		Surfactant	S.C. Johnson Wax
MACHON RED KK-981D	100 to 100 000		pigment	Dominion Color

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10101 FEE	24			
KROLOR YELLOW Ku. 705. D	34 pallet # 521		piament	Dominion Color
KROMA DED DO0179	34		Diament	Coming Color
KINDING BITS THOUSE	107 pallet # 155		Tion Rid	TOION HOUSE
ARCINOS 2180 (000-160)	240 nallet # 537		ngmem	
LIONOL BLUE	28 pollet # 600		1102	Kronos
LITHOL FAST MAROON L4763	70 pailet # 523		pigment	
LITHOL FAST SCARI FT I 4300	- 1	P.R. 52:2	azo lake	BASE
LITHOL RED K3690	66 pallet # 377, 550	P.R. 48:4	azo lake	
LITHOL RED NAK 3480	13 pallet # 474		pigment	RASE
DEC VIEW DATE	10/pallet # 477		nomont	BACE
ITHOL BUSINE 0436600	33	P.R. 57.1	azo lako	BACE
ITHOL RUBINE DES 15 5450 50	6,320 pallet # 517		azo lake	BASE
LITHOL SCADI ET MIDE AND	120		oll inke	2000
LITHOL SCAPIET NEWARS	100 pallet # 245, 504	P.R. 48:2	azn lake	BASE
ITHOL SCADIET NOS STEE	1,375 pallet # 53, 71, 73, 74, 75,	76 P.R. 48:2	azo lake	BACE
ITUOL SOAR ET SES		_	oiomont.	1000
JONES PLANTED S3/02	10 pallet # 79	P.R. 48-1	מיוסו סרפ	ביים מיים
LOCULT BLACK 10066	10 pallet # 249	P. 17	azo iano	DAGE
-UCONYL RED 3870	60 pallet # 90	100	Dig. Dieb.	BASE
UCONYL YELLOW 1560	110 nallet # 80	7.R. 123	prg. prep.	BASF
UCONYL YELLOW 1916			pig. prep.	BASF
LUNA YELLOW NBL1277	110 pailet # 111, 249	P.Y. 42	pig. prep.	BASF
LUWAX 9675 POWDER	or pallet # 503	P.Y. 74	azo coating	BASF
UWAX AF31	1,320 pallet # 102, 103	ЪР	polyeth. wax	BASF
LUWAX AL 3 POWNER	132 pallet # 379	micronized PE	polyeth, wax	BASE
LUWAX AM 3	325 pallet # 361, 362	LDPE	polyeth, wax	BASE
LUWAX AM POWNER	187 pallef # 101, 115, 363		polyeth, wax	BASE
M-60 MS	66 pallet # 87		polyeth, wax	BASF
EY WOLLT D	198			
MACENTA POT 2 (25-786)	25 pallet # 536		niomant	Donog
ACENTA DRI 343D	41 pallet # 523		- Compos	Cibe
MAGENIA R6-MGB038 (010-302)	57 pallet # 536		pignont	Cloa
MAGEN A KV-6843 (006-684)	28 nallet # 541		high right	Kadlanı
MANOX IRON BLUE 96292 A192	274 ballet # 545		ngmeni	Бауег
MARCON	33 nallot # 145			
MEARLIN BRIGHT WHITE 138X/MND	464 nollet # 160		pigment	
MEARLIN EXT SUPER COPPER 2597	201 # Iblind Coo		pigment	Mearle
	35 pallet # 134		oiomont.	Moorlo

Page 5 of 12

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Page 6 of 12

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ELLE CALL CARA BRIGHT BRONZE	TE Incline #	100			
MEARLIN EXT. 339X HI LITE ORANGE	25 # 19IIIPI C7	757		pigment	Meade
MEARLIN EXT. BLUE-GR 72897/MMID	31 pallet # 152	152		Diament	Mondo
MEARLIN EXT RUSSET AAOV MAND	55 pallet # 145	145		pigmon	Medile
MEARIN SIDED DITE 2202 222	211 pallet # 152	52		panent	Меале
ADIM CIPES SELVE 639Z PZ0796	52 pallet # 134	34		pigment	Mearle
MCARLIN SUPER COPPER 359Z	AG malala	45		pigment	Mearle
MEARLIN SUPER GREEN 839Z PZ0797	# John John J.	43		pigment	Mearle
MEARLIN SUPER RUSSET 459Z/GND	vo pallet # 134	34		plament	Mearte
MEARLIN SUPER RUSSET 4597MAN	55 pallet # 134	34		Diament	Mearle
MHHPA 400-209	79 pallet # 145	45		Diomont	A Contraction
MICA 2597	180 pallet # 35	5		Paginani	меапе
MICRO TITANII IM MATERIO CA	153 pallet # 134	34			
MICRONAL BED 206464	41 pallet # 151	51			
BONAL BEOMBOSS	902 pallet # 204	04 230			
MICHOLOGICAL BOUNEC/95161	247 tolled CAC	-1		microcapsule	đ
MICKONAL POWDER FF4101	# Pallot # C			microcapsule	60
MICRONAL S100	242 pallet # 41	-		microcapsule	-
MICRONAL S40 36-1240	7,210 pallet # 81			micmeansule	
MIDAS GOLD 51-738408 CL 0048	242 pallet # 66	9		microcanin	
MONARCH 1300 POWNED BK1015	109 pallet # 1	92		nica property	
MONARCH BILIE X3485	48 pallet # 150,	50, 155		pigmon.	1
MONASTRAI BED B VOT 222 P	100 pailet # 522	22		Pigmen	2000
MAINE CODE: OFFICE	12 pallet # 149	6		Pignen	Cookson
NACINE 5543 DOSCES	55 pallet #83				
NADTHOL ASSI	302 pallet # 125	12 12 F			
NEOZABON OBASIOE	457 pallet # 224	-1			
NEDT IN BLACK VAS BOSSES	900 pallet # 588	8 589			
IN BLACK XIS POWDER	55 pallet # 204				BASE
	40 mallet # 528			INK dye	BASE
MEP I UN BLACK X70 (001-070)	The state of the s	- 1		ink dye	BASE
NEPTUN BLUE LB722	104 pallet # 330	0, 541		ink dye	BASE
NEPTUN ORANGE BASE 2081 D	450 pallet # 236	S.B.	3. 38	ink dye	BASE
NEPTUN VIOLET BASE NEGOT	62.5 pallet # 109	8.0		ink dve	RACE
NUXTRA CALCILIM 4%	5 pallet # 475,	5, 478-482		265	2000
NUXTRA ZINC 16%	281 pallet # 230	0		drier	DAGE
ORANGE DYF ABC 40.6234	400 pallet # 143	3		dier	
PALAMID BI ACK DOODS	33 pallet # 68				
CONORD VOUCE	22 pollot # 40				-

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PALAMIN DEN 25 8855	66 pallet # 66		dve	RASE
PALAMIN RELI 33-8005	66 pallet # 68		dve	מאמ
PACANIL BRILLIANT PINK	202 pallet # 157		dyc	TOYO.
PALE GOLD PG9020 PZ102	100 # tolloo 1001		aye	BASE
PALIOCROM BLUE FA4081/I 6000	74 Pallet # 80		pigment	
PALIOGEN BILIE KRA30	/4 pallel #150		ink pigment	BASF
PALIDGEN MADOON EASTE	55 pallet # 40	P.B. 60	plastic pig.	BASF
DAI IOCEN MADOON FAST / 5	66 pallet # 40		piament	RASE
PALICGEN MARKOON FK4152	132 pailet # 248		Dinment	BASE
PALIUGEN MAROON L3920	30 pallet # 84	P.B. 170	Promoter Jei	1000
PALIOGEN MAROON L4020	99 pallet # 40.52	D 170	Hall pignies	DAST
PALIOGEN ORANGE L3180HD	60 nallet # 80 82	2	ment pigment	BASE
PALIOGEN RED L3585 HD	Q nallet # 526		ink pigment	BASF
PALIOGEN RED L3675	AA K44 mallat 401 401 402 000		ink pigment	BASF
PALIOGEN RED I 3870HD	74,514 pallet # 104, 463-486, 58/		ink plgment	BASF
PALIOGEN RED I 3910HD	Z/.3 pallet # 53	P.R. 123	ink pigment	BASF
PALIOGEN BED 1 4120	14 pallet # 79, 84	P.R. 178	ink pigment	BASF
PALIOCEN DED VI EAS	76 pallet # 79, 104	P.R. 179	ink pigment	BASE
DALIOTAN SEL ONE SAL	142 pallet # 79, 81, 82	P.V. 29	ink pigment	BASE
PALIOTO RIVIELLOW L 2145	54 pallet # 364		ink ploment	BACE
PALIOTOL BLACK (SCHWARZ) L0080	4,025 pallet # 199, 355-359	P.BI. 1	ink pioment	BACE
PALIU I OL BLACK K0080	86 pallet # 82	PRI	olacilo pia	ביים
PALIOTOL ORANGE L2952 HD	33 nallet # 380	79 0	Plastic pig.	TOWO!
PALIOTOL RED L3551HD	178 nallet # 10 84	7.0.0	ink pigment	BASF
PALIOTOL YELLOW 1819	AS nation # 400	F.R. 231	ink pigment	BASE
PALIOTOL YELLOW FK4074	AR Pallot # 400	207	pigment	BASF
PALIOTOL YELLOW K1090		F Y 183	pigment	BASF
PALIOTOL YELLOW K1570	30 pallet # 18, 520	P.Y. 138	plastic plg.	BASF
PALIOTOL YELLOW K1841D	040	P.Y. 138	plastic pig.	BASF
PALIOTOL YELLOW K2270	4, 248, 362,	5 P.Y. 139	plastic pig.	BASF
PALIOTOL YELLOW! 1155	2/ pallet # 502, 528		pigment	BASF
PALIOTOL VELLOW 1770	11 pallet # 528		pigment	BASF
PALIOTOL VELLOW 1820	150 pallet # 78, 79, 80	P.Y. 139	Ink pigment	BASF
PALIOTOL VELLOW 124461	96 pallet # 85, 528	P.Y. 139	ink pigment	BASF
PAMINOPENZAMINE 4 F PACE	55 pallet # 584		pigment	BASF
PARALOID K 125 6 7022	108 pallet # 220			
DADADI	528 pallet # 115	c	plastic add.	
TOWN PLASTICIZER	24 pallet # 142		plasticizer	

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1 P.B. 1. 403, 404		
1-300 N -007) S1 6-DC S1-DC		
1-300 N -007) 51 6-DC 81-DC		
-007) -007) -6-DC -6-DC	piament	Magnidor
6-DC 11-DC	Tro Elor	
6-DC 11-DC	and a second	Clarian
-007) 49 6-DC 11-DC	namfin	Lonza
6-DC 11-DC	pigment	Lonza
6-DC 11-DC	pigment	Collech
49 6-DC 11-DC	resin	RASE
49 6-DC 11-DC		5
6-DC 11-DC		
6-DC 11-DC		
6-DC 41-DC	45.4	
6-DC 41-DC	4.0	
6-DC 41-DC	pigment	Bayer
ie-Dc	pigment	Bayer
6-DC	pigment	Baver
6-DC	plament	Baver
6-DC	oil ink	Mannidar
6-DC 11-DC	Solvent inke	1
6-DC	aloi loke	1
6-DC	2	INIAGINOEL
6-DC	-	
6-DC 11-DC	1	
6-DC 11-DC	SOIVent Oils	1
6-DC	solvent oils	ls Magnuder
6-DC	solvent oils	
6-DC		
6-DC	ф	PASE
14-DC		
	104, 408, 410 oil ink	Manndar
	solvent oils	Monday
SICO FAST BED D 3056	0.00	1
	azu pigment	DE BASE

Page 9 of 12

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SICO LASI REIO 1853HD				
SICO EACT DED 1 3000	824.5 pallet # 87, 91, 92	P.R. 3	azo pigment	RASE
SIGO FAST AEU LAGAS	164 pallet # 203, 206, 550, 580	P.R 112	azo oioment	T
SICU FAST YELLOW D1358	82 nallet # 12	20 70	azo pignieni	DAGE
SICO FAST YELLOW DYE NBK1783	70 pollot # 404 474	F. F. 03	azo pigment	BASF
SICO FAST YELLOW NRD 1780		P.Y. 83	azo pigment	BASF
SICO FAST VELLONAL NEW 4265	46 pallet # 502, 585		azo pigment	BASF
SICO ODANICE 2000 1203	18 pallet # 474		azo pigment	RASE
SICO ORANGE SUAVZS68	10 pallet # 13		870 Diament	BACE
SICO ORANGE L3052 HD	71 pallet # 36, 527	P.O. 5	azo pigmont	2000
SICO ORANGE NBD2855		97.00	aco pignieni	DAGE
SICO ORANGE NBL2840	275 no lot # 35 47 85	0.40	azo pigment	BASF
SICO RED 35AV0990	-	7.O. 46	azo pigment	BASF
SICO RED 37AV1087	00 mailer # 10		azo pigment	BASF
SICO RED 374V2334	30 pailet # 13		azo pigment	BASF
SICO DED 3040	10 pallet # 13		azo pigment	BASE
SIOO BITS SUME	623 pallet # 372, 373, 503, 504	P.R.3	Azo pioment	BACE
SICU RED 38AV1088	.1	2 1	מבט פונטוווו	John John
SICO RED 39AV1775	20 pallat # 13		azo proment	BASE
SICO RED 503D4859	440 polici # 100		azo pigment	BASE
SICO RED 13850	440 palled # 520		azo plgment	BASF
SICO RED 1 3866		P.R. 3	azo pigment	BASE
SICO DED MDI 2754	5 pallet # 527		azo pigment	BASE
SICO RED INDLA/31	116 pallet # 101, 474		toomoin ove	0 400
SICO RED NBL3841	12 pallet # 474		מלט הומווומווו	DASE
SICO YELLOW L0951 NLD203192	A toller	6	azo pigment	BASE
SICO YELLOW NBD1358	140 paner # 02	P.Y. 3	azo pigment	BASF
SICO YELLOW NRD13R0	011	P.Y. 74	azo pigment	BASF
SICO VELLOW ED1252	1,333	P.Y. 74	azo pigment	BASF
SICO VELLOMINISTASS	284 pallet # 580, 582		azo pigment	BASF
SICONNI BI ACK FIVE AGES	254 pallet # 474, 528		azo pigment	BASE
SICOINTE BLACK FR P3269	550 pallet # 72, 88		piament	RASE
SICOPAL BLUE K8310	330 Pallet # 216	P.B. 28	inomanic nin	BASE
SICOPAL BLUE L/210	192 pallet # 9, 80, 81	PB 28	inomanni oio chamoni	BAGE
SICOPAL BROWN	86 pallet # 87		ald olingeroui	1000
SICOPAL BROWN K2595	185 nallet # 42 584	0 00 24	includante pig	DASE
SICOPAL BROWN K2795	100 pallet # 55 104 584	20.00	monganic pig	BASE
SICOPAL GREEN K9610		7.DR. 28	morganic pig	BASF
SICOPAL GREEN K9710	-		morganic pig	BASF
SICOPAL GREEN LOGAR	on pallet # 80		inorganic pig	BASF
01000	150 pallet # 41		oin sinemoni	1000

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Page 10 of 12

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Ambler, Pa 19002

SICOPAL YFIL OW	June 19 19 19002		
SICOPAL YELLOW FK4186	345 pallet # 52, 211		
SICOPAL VELLOWER 183	41	1	
SICODAL VIII S	176 natlet # 10 44	Inorganic pig	ig BASF
SIOCFAL FELLOW L1100	54 polled # 500	inorganic pig	ig BASF
SICOPAL YELLOW L1112	2 palict # 360	inorganic pio	
SICOPAL YELLOW L1115	1,352 pallet # 55, 249, 530, 550 P.Y. 184		
SICOPLAST BLUE 68-0850	55 pallet # 211		1
SICOPLAST BROWN 39-0420	526, 527		
SICOPLAST BROWN EV27 0440	370 pallet # 52, 55, 207	XIII IIIIX	T
SICOPI AST OBANOF US OF	5,541 pailet # 81 84 243 244	pigment mix	
SICODI ACT DITE OF	842 pallet # 506 528	pigment mix	K BASF
SICON 18ED 32-1720	333 nallef # A0 ac our	pigment mix	BASF
SICOPLAS RED 36-0330	2 206 pallot # 08 00 435	pigment mix	K BASF
SICUPLAST RED 37-0270	2,250 pailet # 50, 98, 100, 109, 541	pigment mix	
SICOPLAST RED 37-0280	000 pariet # 590, 591	plament mix	
SICOPLAST RED NB	129 pailet # 98	Diament mix	
SICOPLAST V BROWN 39.0PM	86	Sim Japanoid	
SICOPLAST VELLOWING GOOD	220 pallet # 235	Pigmont IIIIA	1
SICOPI ACT VELOW US-USBU	880 pallet # 34, 56, 83	pigment mix	
SICOBI AST VELLOW 20-1050	3	pigment mix	BASF
GOOTLAST YELLOW NB10-0290	47 collet # sea	pigment mix	BASF
SICOPLAST YELLOW NBFK3286	440 F.	pigment mix	BASF
SICOPUR RED S2832	I TO pallet # 41	. Diament mix	1
SICOR ZNP/S	60 pallet # 60	Diomont.	
SICORIN D7	528 pallet # 9 68 85 518	high high	
SICOCIA POSS	220 hallet # 82 4 hg 252	anticorrosion	BASE
SICCOLAB REUUT	55 palled # 440	anticorrosion	BASF
SICOLAN YELLOW 515951		heat stabilize	BASF
SICOTAN YELLOW K0911	D	inorganic pig	1
SICOTAN YELLOW K1010	955 pallet # 43		1
SICOTAN YELLOW K1011FG	250 pallet # 14, 207, 252, 374 P.Y. 53	inorganic oid	П
SICOTAN YELLOW K2080FG	330 pariet # 52, 66, 104, 106 P.Y. 53	inordanic pio	1
SICOTAN YELLOW K2107FG	540 pallet # 168, 252, 362, 370, 51 P.BR. 24		RACE
SICOTAN YELLOW K2109	97 pallet # 12, 527 P BR 24		200
SICOTAN YELLOW! 1942			DAOL
SICOTAN VELLOW LIDIZ	8 248 484 ADE		BASE
SICULAN YELLOW L1912		inorganic pig	BASF
SICUIAN YELLOW L2010	10	inorganic pig	BASF
SICOTAN YELLOW NBK2011 FG			BASE
	314 pallet # 81, 108, 516, 528 P. BR 24		10 4 0
		Bid allie big	BASE

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SICOTRANS RED FA7458 SICOTRANS RED IRON OXIDE R9998			
SICOTRANS RED IRON OXIDE R9998	220 pallet # 12, 80	frans iron pio	BASE
SICCITION ON ON OF RABBIS	170 pallet # 80	frans iron pin	
	50 pallet # 545	Rid III	1
SICOTRANS RED IRON OXIDE	33 pallet # 108	trans iron oid	D A C
SICUI KANS RED K2819	107 pallet # 528, 527, 581	gid non sinaio	DAOL DAOL
SICCLIKANS RED K2915		pigillell.	DAGE
SICOTRANS RED L2715	S collet # E01	pigment	BASE
SICOTRANS YELLOW L1910	Janet + 32/	pigment	BASF
SICOTRANS YELLOW 1912		pigment	BASF
SICOTRANS VELLOW/14045	35 pallet # 528, 527	pigment	BASE
SICOTRAMS VEIL OWIT 1946	21 pallet #475, 516, 526, 585	pigment	BASE
SII BERI INF SSE240 AD DZ0402	5,537 pallet # 516, 527, 548, 547, 54 P.Y. 42	trans iron pig	BASE
SII RERI INE SCENAND	61 pallet # 145	afuminum pig.	
SII REPLINE CODOCADO	4 pallet # 142	aluminum oto	
BED INE SOF FOLLAN PERSON	34 pallet # 145	aluminum pin	
SILDLALINE SSP-304 AK PZ2380	45.5 pallet # 128	a minimino	
SPARKLE SILVER SS6246AR PZ2230	168 pallet # 137	and illuming pig. Silberline	Silberline
STAPA METALLUX 212(OBP-8420)	172 hallat # 191		
STAPA METALLUX R277 PZ2163	1.020 pallet # 130 133		
SUNBRITE RED 42:2	66 nallet # 9		
THERMOPLAST BLUE 684	77 247		
THERMOPLAST YELLOW 104	61 mallel # 677 696 696	plastic dye	
TINUVIN 123	. 202	plastic dye	
TINUVIN 440 DS2593	1.14 pallet # 229	plastic add.	Ciba
TINIIVIN 785 034.765	8.5 pailet # 126	plastic add.	Ciba
ANII IM DIOXIDE DI TETTI DI SO	330 pallet # 532	plastic add	Ciba
TRANS OXIDE RED 20 4000	132 pallel # 52		200
TRANS DED 16 2200 2412 200 110	110 pallet # 11	piament	Hillon Davie
CONOX 464 27 ES	125 pallet # 533	pioment	Hilton Davis
TRIGONOA 101-75 PP	100 pallet # 50	plactic add	Ciba
UL I KA MARINE BLUE	147 pallet # 521	piastro auto.	Cina
ULTRAMARINE BLUE 6177	144	biginent	
VANOX 898 AO146	110 nallat # 42	biginent	
VERMELNO THERMOPLAST LB454	44 nallet # 478		
VIOLET NRT 201D	An analysis		
YELLOW	470 Hallet # 207	pigment	Cookson
YELLOW 157	132 pailet # 88	pigment	
101	22 pallet # 526	piament	

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		Sun Chemical				BASF	BASF	BASF		
	pigment	pigment	pigment	pigment	pigment	metal dye	metal dye	metal dye		
						S.BL. 27				
300 pallet # 564	44 pallet # 535	66 pallet # 85	141 nallet # 568	50 nallet # 16g	200			60 pallet # 156	# 89	31 # 125
Dall	44 pall	66 pall	141 pall	150 nall	22	110	25	60 palle	1,100 pallet # 89	375 pallet # 125
300										
300										
300)		
YELLOW 275 0040 000 000	(002-026)	YELLOW 1534 D 540	YELLOW OXIDE 2012	ZABON BLACK SET	ZAPON BEOMA SES	ZAPON BOOMN 280		ZINC DIST PROPIET (200418)	ZINC OCTOATE 90 COOL	USO254

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APPENDIX 4

WATER CONTAINMENT STRATEGIES

Bridgeport Fire ER Suggestions for Containment of Surface Water Runoff

The following list provides potential methods to deal with surface water runoff and contamination resulting from both storm events and fire fighting measures during the response at the Bridgeport Fire ER. These measures may be implemented in the event that analytical data indicates significant concentrations of contaminants.

- Cover areas of concern (i.e. pile of titanium dioxide) with poly until more permanent measures of containment can be installed.
- Construction/excavation of sedimentation pond along canal path to provide storage and settling of water during heavy flow events.
- Sampling and monitoring of effluent from discharge points including but not limited to the canal discharge to Schuykill River as well as the discharge pipes located along the bank of the Schuykill River providing drainage from the site; a total of 7 possible discharge pipes have been identified along the river-only 4 have been identified as flowing since the response was initiated.
- Install containment berms around various drains located on the site property to minimize contaminants entering canal and basement areas.
- Divert flow from canal upgradient of site property using pumps and hoses to direct flow into Schuykill prior to entering site areas of concern; however, this would do nothing to address the stormwater which reportedly is channeled into the canal from sources outside the site property (i.e. Borough of Bridgeport).
- Contractors should maintain emergency pump equipment to the extent practicable to address significant releases of contaminants during demolition and cleanup operations.
- To the extent practicable, ensure that hazardous materials are removed from areas where they may potentially enter the canal; in addition, hazardous materials staging areas with containment (i.e. berms and liners) should be placed in areas away from drains or other pathways to the canal.

APPENDIX 5

EPA ANALYTICAL DATA May 18, 2001 Canal Sample QC Laboratories, 1205 Industrial Blvd., Southampton, PA 18966 Phone: 215-355-3900 FAX: 215-355-7231

FAST FAX ADVANCE ANALYTICAL RESULTS
Approved Analytical Report will follow
by U.S. Mail or express carrier.

TO:

(b)(4)

COMPANY: TETRA TECH EM INC. FAX PHONE: 1-610-485-8587

FROM:

COMMENTS:

(b) (4)

SENT ON: Mon May 21 12:03:04 2001

NUMBER OF PAGES (Including Cover): 6

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05/21/01 12:03pm

(b) (4)

TETRA TECH EM INC. 107 CHELSEA PARKWAY BOOTHNYN, PA 190061 Regarding:

(b) (4)

TETRA TECH EM INC. 107 CHELSEA PARKWAY BOOTHWYN, PA 190061

Account No: C00633, TETRA TECH EM INC. Project No: C00633. TETRA TECH EM INC.

P.O. No: PWSID No:

Inv. No:

Color Canal Cana				FMSID NO.	
CALCIUM	Sample Number L761423-1	03-0105-L03 BF-SW-01 END OF CANAL		Samp. Date/Time/Temp 05/18/01 08:55am NA°F	
# CALCIUM SN846 Method 6010 666.7 mg/l 0.100 mg/l 05/20/01 POTASSIUM SN846 Method 6010 11.6 mg/l 0.100 mg/l 05/20/01 SODIUM SN846 Method 6010 99.3 mg/l 1.00 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00200 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00200 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00200 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00200 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00200 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00200 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00200 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.0100 mg/l 05/20/01 PSILVER SN846 Method 6010 0.0168 mg/l 0.0100 mg/l 05/20/01 PSILVER SN846 Method 6010 0.2237 mg/l 0.0100 mg/l 05/20/01 PSILVER SN846 Method 6010 0.2237 mg/l 0.0100 mg/l 05/20/01 PSILVER SN846 Method 6010 0.0164 mg/l 0.0100 mg/l 05/20/01 PSILVER SN846 Method 6010 0.0164 mg/l 0.0100 mg/l 05/20/01 PSILVER SN846 Method 6010 0.0164 mg/l 0.0100 mg/l 05/20/01 PSILVER SN846 Method 6010 0.0164 mg/l 0.0100 mg/l 05/20/01 PSILVER SN846 Method 6010 0.0164 mg/l 0.0100 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.0000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILVER SN846 Method 6010 ND mg/l 0.00000 mg/l 05/20/01 PSILV	Parameter	Method	Result.	PI s	Test Date
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# SOLUM SW846 Method 6010 99.3 mg/1 1.00 mg/1 05/20/01 05	* POTASSIUM		11 6 mg/1	0.100 mg/1	
# SILVER	* SODIUM		99 3 mg/1	0.100 mg/1	
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BERYLLIUM	* BARIUM			0.0100 mg/1	
CAMIUM	* BERYLLIUM			0.0100 mg/1	
COBALT	* CADMIUM			0.00200 mg/1	
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SELENTUM SN846 Method 6010 0.00525 mg/1 0.00500 mg/1 05/20/01	* ANTIMONY	SW846 Method 6010		0.00300 mg/1	05/20/01
THALLIUM	* SELENIUM	SW846 Method 6010	0.00525 mg/1	0.0200 lig/1	05/20/01
VANADIUM	* THALLIUM			0.00300 lig/1	05/20/01
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F 2-CHLOROPHENOL EPA Method 8270 ND ug/1 10.0 ug/1 05/20/01 2-METHYLPHENOL EPA Method 8270 ND ug/1 10.0 ug/1 05/20/01 4-METHYLPHENOL EPA Method 8270 ND ug/1 5.00 ug/1 05/20/01	PHENOL		1 65 .1 10/1	10.0 100/1	
7.2-METHYLPHENOL EPA Method 8270 ND ug/1 10.0 ug/1 05/20/01 4-METHYLPHENOL EPA Method 8270 ND ug/1 5.00 ug/1 05/20/01	2-CHLOROPHENO			10.0 ug/1	
4-METHYLPHENOL EPA Method 8270 ND ug/1 5.00 ug/1 05/20/01	2-METHYLPHENC				
5.00 ug/1 05/20/01	4-METHYLPHENO			10.0 ug/1	
	2-NITROPHENOL	Entribution OLIV	ND ug/1	5.00 Ug/I	

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs. OC INC's laboratory certification ID's are: PADER 09-131; NJDEP Southampton 77166, Wind Gap 77001, Alltest 02015 additional states upon request.

Definitions: ND-not detected; NEG-negative; POS-positive; COL-colonies; RLs-laboratory reporting limits; L/A-laboratory accident;

TNTC-too numerous to count

A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.

All analysis, except field tests are conducted in Southampton, PA unless otherwise identified. All parameters marked with '*' have

Page 1 Unsertalized Copy



05/21/01 12:03pm

Account No: C00633, TETRA TECH EM INC. Project No: C00633. TETRA TECH EM INC.

P.O. No: PWSID No:

Inv. No:

Sample Number Sample Description L761423-1 03-0105-L03 BF-SI	on N-01 END OF CANAL		Samp. Date/Time/Temp 05/18/01 08:55am NA°F	Sampled by Customer Sampled
Parameter	Method	Result	RLs	Test Date
	EPA Method 8270	ND ug/1	10.0 ug/1	05/20/01
* 2,4-DIMETHYLPHENOL * 2,4-DICHLOROPHENOL	FPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* 4-CHI ORO-3-METHYI PHENOI	FPA Method 8270	ND ug/1	10.0 ug/1	05/20/01
* 2 4 6-TRICHLOROPHENOL	FPA Method 8270	ND ug/1	10.0 ug/1	05/20/01
* 2.4.5-TRICHLOROPHENOL	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* 2,4-DICHLOROPHENOL * 4-CHLORO-3-METHYLPHENOL * 2,4,6-TRICHLOROPHENOL * 2,4,5-TRICHLOROPHENOL * 2,4-DINITROPHENOL	EPA Method 8270	ND ug/1	10.0 ug/1	05/20/01
* 4-NITROPHENOL	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* 4,6-DINITRO-2-METHYLPHENOL	EPA Method 8270	ND ug/1	10.0 ug/1	05/20/01
* PENTACHI OROPHENOI	EPA Method 8270	ND ug/1	20.0 ug/1	05/20/01
H HITTOCODINETHU ANTHE	FD4 M-41-1 0070	ND ug/1	10.0 ug/1	05/20/01
N-NITROSOUTHE THYLAMINE BIS(2-CHLOROBETHYL) ETHER 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZYL ALCOHOL 1,2-DICHLOROBENZENE * BIS(2-CHLOROISOPROPYL)ETHER	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
1,3-DICHLOROBENZENE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
1.4-DICHLOROBENZENE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
BENZYL ALCOHOL	EPA Method 8270	4.07 J ug/1	5.00 ug/1	05/20/01
1,2-DICHLOROBENZENE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* BIS(2-CHLOROISOPROPYL)ETHER	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* N-NITROSO-DI-N-PROPYLAMINE	EPA Method 8270	ND ug/1	10.0 ug/l	05/20/01
* N-NITROSO-DI-N-PROPYLAMINE * HEXACHLOROETHANE * NITROBENZENE * ISOPHORONE BENZOIC ACID * 1,2,4-TRICHLOROBENZENE * NAPHTHALENE 4-CHLOROBNILINE * HEXACHLOROBUTADIENE 2-MFTHYI NAPHTHALENE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* NITROBENZENE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* ISOPHORONE	EPA Method 8270	ND ug/1	.5.00 ug/1	05/20/01
BENZOIC ACID	EPA Method 8270	ND ug/1	10.0 ug/1	05/20/01
* 1.2.4-TRICHLOROBENZENE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* NAPHTHALENE	EPA Method 8270	7.69 ug/1	2.00 ug/1	05/20/01
4-CHLOROANILINE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* HEXACHLOROBUTADIENE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
2-METHYLNAPHTHALENE	EPA Method 8270	2.48 J ug/1	5.00 ug/1	05/20/01
* HEXACHLOROCYCLOPENTADIENE	EPA Method 8270	ND ug/1	10.0 ug/1	05/20/01
* 2-CHLORONAPHTHALENE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* HEXACHLOROBUTADIENE 2-METHYLNAPHTHALENE * HEXACHLOROCYCLOPENTADIENE * 2-CHLORONAPHTHALENE 2-NITROANILINE * DIMETHYL PHTHALATE * ACENAPHTHYLENE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* DIMETHYL PHTHALATE	EPA Method 8270	ND ug/1	10.0 ug/l	05/20/01
* ACENAPHTHYLENE * 2.6-DINITROTOLUENE 3-NITROANILINE * ACENAPHTHENE * DIRENZOEIRAN	EPA Method 8270	1.91 J ug/1	2.00 ug/1	05/20/01
* 2.6-DINITROTOLUENE	EPA Method 8270	ND ug/1	10.0 ug/1	05/20/01
3-NITROANILINE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* ACENAPHTHENE	EPA Method 8270	ND ug/1	2.00 ug/1	05/20/01
		ND ug/1	2.00 ug/1	05/20/01
* 2.4-DINITROTOLUENE	EPA Method 82/0	ND ug/1	5.00 ug/1	05/20/01
* A CUI OCCULENTI DUENTI COSTO	EPA Method 82/0	ND ug/1	10.0 ug/1	05/20/01
* DIETHYLPHTHALATE * 4-CHLOROPHENYL PHENYL ETHER * FLUORENE 4-NITROANILINE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
A_NITOONII INC	EPA Mothed 9270	ND ug/1	2.00 ug/1	05/20/01
4-WILLOWWILLING	CPA Method 82/0	ND ug/1	5.00 ug/1	05/20/01

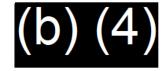
A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs. QC INC's laboratory certification ID's are; PADER 09-131; NJDEP Southampton 77166, Wind Gap 77001, Alltest 02015 additional states upon request.

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Page 2 Unsertalized Copy





05/21/01 12:03pm

Account No: C00633, TETRA TECH EM INC. Project No: C00633, TETRA TECH EM INC.

P.O. No: PWSID No:

Inv. No:

			THOSE NO.	
Sample Number Sample Descript	ion SW-01 END OF CANAL Method		Camp Date/Time/T	C
L761423-1 03-0105-L03 BF-	SW-01 END OF CANAL		Samp. Date/Time/Temp 05/18/01 08:55am NA°F	Sampled by
Parameter ·	Method	Result	RLs	Customer Sampled
			5.00 ug/1	Test Date
N-NITROSODIPHENYLAMINE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* 4-BROMOPHENYL PHENYL ETHER	FPA Method 8270	ND ug/1	10.0 ug/1	05/20/01
* HEXACHLOROBENZENE	FPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* PHENANTHRENE	EPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* ANTHRACENE	FPA Method 8270	2 20 1 107/1	2.00 ug/1	05/20/01
* CARBAZOLE	FPA Method 8270	2.30 5 ug/1	2.00 ug/1	05/20/01
* DI -N-BUTYLPHTHALATE	FPA Method 8270	ND ug/1	5.00 ug/1	05/20/01
* FLUORANTHENE	FPA Method 9270	2 10 1/2	5.00 ug/1	05/20/01
BENZIDINE	FPA Method 8270	2.10 J ug/1	2.00 ug/1	05/20/01
* PYRENE	FPA Method 9270	1 06 1 ug/1	20.0 ug/1	05/20/01
* BUTYL BENZYI PHTHALATE	FPA Method 9270	1.00 J ug/1	2.00 ug/1	05/20/01
* 3.3'-DICH OROBENZIDINE	FDA Method 9270	ND ug/1	5.00 ug/1	05/20/01
* BEN70(A)ANTHRACENE	FPA Method 9270	1 22 1 ug/1	5.00 ug/1	05/20/01
* CHRYSENE	EDA Mothod 9270	1.33 J ug/1	2.00 ug/1	05/20/01
* BIS(2-FTHY) HEXYL) PHTHALATE	FDA Mothod 9270	1.21 J ug/1	2.00 ug/1	05/20/01
* DI -N-OCTYI PHTHAI ATE	EDA Mothod 9270	2.53 JB ug/1	5.00 ug/1	05/20/01
* RENZO(R)FILINDANTHENE	EDA Method 0270	ND ug/1	10.0 ug/7	05/20/01
* RENZO(K)FI INDANTHENE	EDA Mothed 8070	ND ug/1	2.00 ug/1	05/20/01
* RENTO(A)PYDENE	EPA Method 8270	1.0/ J ug/1	2.00 ug/1	05/20/01
* INDENO(1 2 3-CD)DVDCNC	EPA Method 8270	1.03 J ug/1	2.00 ug/1	05/20/01
1,2-DIPHENYLHYDRAZINE N-NITROSODIPHENYLAMINE 4-BROMOPHENYL PHENYL ETHER HEXACHLOROBENZENE PHENANTHENE ANTHRACENE CARBAZOLE DI-N-BUTYLPHTHALATE FLUORANTHENE BENZIDINE PYRENE BUTYL BENZYL PHTHALATE 3,3'-DICHLOROBENZIDINE BENZO(A)ANTHRACENE CHRYSENE BIS(2-ETHYLHEXYL)PHTHALATE BENZO(B)FLUORANTHENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE BENZO(K)FLUORANTHENE BENZO(K)FLUORANTHENE BENZO(K)FLUORANTHENE BENZO(K)FLUORANTHENE BENZO(K)FLUORANTHENE BENZO(G, H, I)PERYLENE BIS(2-CHLOROBETHOXY)METHANE UNKNOWN-1 UNKNOWN-2 UNKNOWN-3	EPA Method 8270	ND ug/1	2.00 ug/1	05/20/01
* RENTO(G H T)PEDVIENE	EPA Method 8270	ND ug/1	2.00 ug/1	05/20/01
* BIS(2-CH ODOETHOVY)METHANE	EPA Method 8270	ND ug/1	2.00 ug/1	05/20/01
INKNOLN-1	EPA 9070 Idhawa Caral	ND ug/1	10.0 ug/1	05/20/01
UNKNOWN-2	EPA 8270 Library Search	138. J ug/1		05/20/01
UNKNOWN-3	EPA 8270 Library Search	40.7 J ug/1		05/20/01
UNKNOWN -4	EPA 8270 Library Search	14.00 44/		05/20/01
UNKNOWN-5	EPA 8270 Library Search	5.35 J ug/1		05/20/01
UNKNOWN-6	EPA 8270 Library Search	22.9 J ug/1		05/20/01
UNKNOWN - 7	EPA 8270 Library Search	8.19 J ug/1		05/20/01
CAPROLACTAM	EPA 8270 Library Search	17.7 J ug/1		05/20/01
UNKNOWN-8	EPA 8270 Library Search	75.6 NJ ug/1		05/20/01
* ALDRIN	EPA 8270 Library Search	59.4 J ug/1		05/20/01
* ALPHA-BHC	EPA Method 8081	ND ug/1	0.0400 ug/1	05/20/01
* ALPHA-BHC * BETA-BHC	EPA Method 8081	ND ug/1	0.0200 ug/1	05/20/01
	EPA Method 8081	ND ug/1	0.0400 ug/1	05/20/01
* GAMMA-BHC (LINDANE)	EPA Method 8081	ND ug/1	0.0300 ug/1	05/20/01
* DELTA-BHC	EPA Method 8081 EPA Method 8081 EPA Method 8081 EPA Method 8081	ND ug/1	0.0200 ug/1	05/20/01
* CHLORDANE	Era method 8081	ND ug/1	0.200 ug/1	05/20/01
* 4,4'-DDD	EPA Method 8081	ND ug/1	0.0400 ug/1	05/20/01

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.

OC INC's laboratory certification ID's are; PADER 09-131; NJDEP Southampton 77166, Wind Gap 77001, Alltest 02015 additional states upon request.

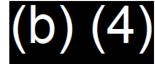
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INTC-too numerous to count
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Page 3

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05/21/01 12:03pm

Account No: C00633, TETRA TECH EM INC. Project No: C00633, TETRA TECH EM INC. P.O. No: PWSID No:

Inv. No:

Sample Number Sample Descrip			Samp. Date/Time/Temp	Sampled by
	-SW-01 END OF CANAL		05/18/01 08:55am NA°F	Customer Sampled
Parameter	Method	Result	RLs	Test Date
* 4,4'-DDE	EPA Method 8081	ND ug/1	0.0400 ug/1	05/20/01
* 4,4'-DOT	EPA Method 8081	ND ug/1	0.0500 ug/1	05/20/01
* DIELDRIN	EPA Method 8081	ND ug/1	0.0300 ug/1	05/20/01
* ENDOSULFAN I	EPA Method 8081	ND ug/1	0.0200 ug/1	05/20/01
* ENDOSULFAN II	EPA Method 8081	ND ug/1	0.0400 ug/1	05/20/01
* ENDOSULFAN SULFATE	EPA Method 8081	ND ug/1	0.0400 ug/1	05/20/01
* ENDRIN	EPA Method 8081	ND ug/1	0.0400 ug/1	05/20/01
* ENDRIN ALDEHYDE	EPA Method 8081	ND ug/1	0.0500 ug/1	05/20/01
* HEPTACHLOR	EPA Method 8081	ND ug/1	0.0200 ug/1	05/20/01
* HEPTACHLOR EPOXIDE	EPA Method 8081	ND ug/1	0.0500 ug/1	05/20/01
* METHOXYCHLOR	EPA Method 8081	ND ug/1	0.0100 ug/l	05/20/01
* TOXAPHENE	EPA Method 8081	ND ug/1	0.500 ug/1	05/20/01
* AROCLOR-1016	EPA Method 8082	ND ug/1	5.00 ug/1	05/20/01
* AROCLOR-1221	EPA Method 8082	ND ug/1	5.00 ug/1	05/20/01
* AROCLOR-1232	EPA Method 8082	ND ug/1	5.00 ug/1	05/20/01
* AROCLOR-1242	EPA Method 8082	ND ug/1	5.00 ug/1	05/20/01
* AROCLOR-1248	EPA Method 8082	ND ug/1	5.00 ug/1	05/20/01
* AROCLOR-1254	EPA Method 8082	ND ug/1	5.00 ug/1	05/20/01
* AROCLOR-1260	EPA Method 8082	ND ug/1	5.00 ug/1	05/20/01
* CHLOROMETHANE	EPA Method 8260	ND ug/1	10.0 ug/1	05/18/01
* VINYL CHLORIDE	EPA Method 8260	ND ug/1	5.00 ug/1	05/18/01
* Bromomethane	EPA Method 8260	ND ug/1	10.0 ug/1	05/18/01
* CHLOROETHANE	EPA Method 8260	ND ug/1	10.0 ug/1	05/18/01
* 1,1-DICHLOROETHENE	EPA Method 8260	ND ug/1	2.00 ug/1	05/18/01
* ACETONE	EPA Method 8260	307. ug/1	5.00 ug/1	05/18/01
* CARBON DISULFIDE	EPA Method 8260	ND ug/1	10.0 ug/1	05/18/01
* METHYLENE CHLORIDE	EPA Method 8260	1.37 J ug/1	2.00 ug/1	05/18/01
* TRANS-1,2-DICHLOROETHENE	EPA Method 8260	ND ug/1	2.00 ug/1	05/18/01
ACROLEIN	EPA Method 8260	ND ug/1	50.0 ug/1	05/18/01
* ACRYLONITRILE	EPA Method 8260	ND ug/1	25.0 ug/1	05/18/01
* 1.1-DICHLOROETHANE	EPA Method 8260	ND ug/1	5.00 ug/1	05/18/01
VINYL ACETATE	EPA Method 8260	ND ug/1	10.0 ug/1	05/18/01
* CIS-1,2-DICHLORDETHENE	EPA Method 8260	ND ug/1	2.00 ug/1	05/18/01
* 2-BUTANONE	EPA Method 8260	297. ug/1	10.0 ug/1	05/18/01
* CHLOROFORM	EPA Method 8260	1.60 J ug/1	1.00 ug/1	05/18/01
* 1.1.1-TRICHLOROETHANE	EPA Method 8260	ND ug/1	1.00 ug/1	05/18/01
* CARBON TETRACHLORIDE	EPA Method 8260	ND ug/1	2.00 ug/1	05/18/01
* BENZENE	EPA Method 8260	1.24 J ug/1	1.00 ug/1	05/18/01
* 1,2-DICHLOROETHANE	EPA Method 8260	ND ug/1	2.00 ug/1	05/18/01
* TRICHLOROETHENE	EPA Method 8260	ND ug/1	1.00 ug/1	05/18/01

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.

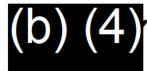
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Page 4

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05/21/01 12:03pm

Account No: C00633. TETRA TECH EM INC. Project No: C00633, TETRA TECH EM INC.

P.O. No: PWSID No: Inv. No:

					(1)
Sample Number Sample Descript 03-0105-L03 BF	tion -SW-01 END OF CANAL		Samp. Date/Time/Temp	Sampled by	
Parameter	Method	Docu1+	05/18/01 08:55am NA°F		
1,2-DICHLOROPROPANE	EPA Method 8260	Result	RLs	Test Date	
* BROMODICHLOROMETHANE	EPA Method 8260	ND ug/1	1.00 ug/1	05/18/01	
* 2-CHLOROETHYL VINYL ETHER		ND ug/1	1.00 ug/l	05/18/01	
* CIS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/1	10.0 ug/1	05/18/01	
	EPA Method 8260	ND ug/1	5.00 ug/1	05/18/01	
* 4-METHYL-2-PENTANONE	EPA Method 8260	36.5 ug/1	10.0 ug/1	05/18/01	
* TOLUENE	EPA Method 8260	6.79 ug/1	5.00 ug/1	05/18/01	
* TRANS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/1	5.00 ug/1	05/18/01	
* 1.1.2-TRICHLOROETHANE	EPA Method 8260	ND ug/1	2.00 ug/1	05/18/01	
* TETRACHLOROETHENE	EPA Method 8260	2.80 J ug/1	1.00 ug/1	05/18/01	
* 2-HEXANONE	EPA Method 8260	ND ug/1	10.0 ug/1	05/18/01	
* DIBROMOCHLOROMETHANE	EPA Method 8260	ND ug/1	1.00 ug/l	05/18/01	
* CHLOROBENZENE	EPA Method 8260	ND ug/1	2.00 ug/1	05/18/01	
* ETHYL BENZENE	EPA Method 8260	ND ug/1	5.00 ug/1	05/18/01	
* M&P-XYLENES	EPA Method 8260	1.65 J ug/1	2.00 ug/1	05/18/01	
* O-XYLENE	EPA Method 8260	ND ug/1	1.00 ug/1	05/18/01	
STYRENE	EPA Method 8260	ND ug/1	5.00 ug/1	05/18/01	
* BROMOFORM	EPA Method 8260	ND ug/1	1.00 ug/1	05/18/01	
* 1.1.2.2-TETRACHLOROETHANE	EPA Method 8260	ND ug/1	1.00 ug/1		
* 1,3-DICHLOROBENZENE	EPA Method 8260	ND ug/1		05/18/01	
* 1.4-DICHLOROBENZENE	EPA Method 8260	ND ug/1	5.00 ug/1	05/18/01	
* 1.2-DICHLOROBENZENE	EPA Method 8260	ND ug/1	5.00 ug/1	05/18/01	
UNKNOWN	EPA 8260 Library Search	ND ug/1	5.00 ug/1	05/18/01	
* CYANIDE, TOTAL	SW846 Method 9010/9014	5.79 J ug/1	0.0500	05/18/01	
PETROLEUM HYDROCARBONS		ND mg/1	0.0500 mg/1	05/18/01	
LETHOLEGE HIDROCANDONS	EPA 600 Method 418.1	42200 mg/1	0.500 mg/1	05/21/01	

L761423-1:

1. Due to the large amount of oil, additional Freon was used to extract the sample for petroleum hydrocarbons.

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.

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NELAP accreditation.

Page 5 Unsertalized Copy

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APPENDIX 6

PHILADELPHIA WATER DEPARTMENT ANALYTICAL DATA

(River Samples)

Sampling and analysis by Philadelphia Water Department (PWD) (provided by PWD to DEP)

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<0.5	<0.5	<0.5	<0.5	<0.5	carbon tetrachloride
×0 ×	<0.5	<0.5	<0.5	<0.5	1,1-dichloropropene
<0.5	<0.5	<0.5	<0.5	<0.5	1,2-dichloroethane
<0.5	<0.5	<0.5	<0.5	<0.5	chlorobutane
<0.5	<0.5	<0.5	<0.5	<0.5	1, 1, 1-trichioroethane
<0.5	<0.5	0.65	<0.5	<0.5	tetranydrofuran
<0.5	<0.5	<0.5	<0.5	<0.5	promocniorometnane
<0.5	<0.5	<0.5	<0.5	<0.5	cniorotorm
<0.5	<0.5	<0.5	<0.5	<0.5	2,2-dichioropropane
<0.5	<0.5	<0.5	<0.5	<0.5	methyl acrylate
<0.5	<0.5	<0.5	<0.5	<0.5	c-1,2-dichloroethene
<0.5	<0.5	<0.5	<0.5	<0.5	2-methyl-2-propenenitrile(methacrylonit
not reported	not reported	not reported**	not reported	not reported	methyl ethyl ketone(2butanone)
<0.5	<0.5	<0.5	<0.5	<0.5	propanenitrile(propionitrile)
<0.5	<0.5	<0.5	<0.5	<0.5	1,1-dichloroethane
<0.5	<0.5	<0.5	<0.5	<0.5	t-1,2-dichloroethene
1.39	1.26	0.75	1.25	0.97	methyl-t-butyl ether
<0.5	<0.5	0.65	<0.5	<0.5	carbon disulfide
<0.5	<0.5	<0.5	<0.5	<0.5	methylene chloride
<0.5	<0.5		<0.5	<0.5	3-chloropropene(allyl chloride)
<0.5	<0.5		<0.5	<0.5	2-propenenitrile(acrylonitrile)
<0.5	<0.5		<0.5	<0.5	iodomethane
<0.5	<0.5	<0.5	<0.5	<0.5	1,1-dichloroethene
<0.5	<0.5	<0.5	<0.5	<0.5	ethyl ether
not reported	not reported	not reported*	not reported	not reported	acetone
not reported	not reported	not reported	not reported	not reported	trichlorofluoromethane
not reported	not reported	not reported	not reported	not reported	chloroethane
not reported	not reported	not reported	not reported	not reported	bromomethane
not reported	not reported	not reported	not reported	not reported	vinyl chloride
not reported	not reported	not reported	not reported	not reported	chloromethane
not reported	not reported	not reported	not reported	not reported	dichlorodifluoromethane
6903 Flat Rock Dam	6903	Schuyl.Riv. 476- Bridge	Flat Rock Dam	QL Intake	Sample Name
11.10am	8.20 am	12.20pm	8.45am	9.15 am	Collection time
5/16/2001	5/17/2001	5/16/2001	5/16/2001	5/16/2001	Collection date
5/17/2001	5/16/2001	5/16/2001	5/16/2001	5/16/2001	Sequence date
				Kan	Operator
					A Cos ischoir (aim-bhn ad/r)

Operator	Kan					
Sequence date	5/16/2001	5/16/2001		5/16/2001	5/16/2001	5/17/2001
Collection date	5/16/2001	5/16/2001		5/16/2001	5/17/2001	5/16/2001
Collection time	9.15 am	8.45am			8.20 am	11 10am
Sample Name			Schuvl.Riv. 476- Bridge			Flat Rock Dam
benzene	<0.5	5		\ I		L MOCK Dall
chloroacetonitrile	<0.5	<0.5		<0.5 5.0 5.0	^ /O.J.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
trichloroethene	<0.5	<0.5		<0.5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V (
1,2-dichloropropane	<0.5	<0.5		<0.5	^ O.5	A 0 . C
2-nitropropane	<0.5	<0.5		<0.5	<0.5	×0.5
methyl methacrylate	<0.5	<0.5		<0.5	<0.5	<0.5
dibromomethane	<0.5	<0.5		<0.5	<0.5	<0.5
bromodichloromethane	<0.5	<0.5		<0.5	<0.5	<0.5
methyl isobutyl ketone	<0.5	<0.5		5.65	<0.5	<0.5
1,1-dichloro-2-propanone	<0.5	<0.5		12.65	<0.5	<0.5
t 1 3 dickloropropene	<0.5	<0.5		<0.5	<0.5	<0.5
t-li-s-dicilolopiopelle	<0.5	<0.5		<0.5	<0.5	<0.5
coldelle	<0.5	<0.5		1.12	<0.5	<0.5
1 1 2 trichlorothan	<0.5	<0.5		<0.5	<0.5	<0.5
3 hoxonon	<0.5	<0.5		<0.5	<0.5	<0.5
1 3 dichlorospone	<0.5	<0.5		<0.5	<0.5	<0.5
dibromochlopanie	<0.5	<0.5		<0.5	<0.5	<0.5
totrochloromemane	<0.5	<0.5		<0.5	<0.5	<0.5
1 2 dibrarathan	<0.5	<0.5		<0.5	<0.5	<0.5
chloch condenane	<0.5	<0.5		<0.5	<0.5	<0.5
1 1 1 2 total control	<0.5	<0.5		<0.5	<0.5	<0.5
1, 1, 1, 2-tetrachioroethane	<0.5	<0.5		<0.5	<0.5	<0.5
etilyipenzene	<0.5	<0.5		<0.5	<0.5	<0.5
ill-opxylenes, 2-106	<0.5	<0.5		0.53	<0.5	<0.5
styrelle	<0.5	<0.5		<0.5	<0.5	<0.5
0-xylelle	<0.5	<0.5		<0.5	<0.5	<0.5
1 1 2 3 1 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<0.5	<0.5		<0.5	<0.5	<0.5
1,1,2,2-lendonoroemane	<0.5	<0.5		<0.5	<0.5	<0.5
1 3 3 tichler and the second s	<0.5	<0.5		<0.5	<0.5	<0.5
1.2.3-uicilioropropane	<0.5	<0.5		<0.5	<0.5	<0.5
bromobonzono	<0.5	<0.5		<0.5	<0.5	<0.5
מיסוויסטכוובפוופ	<0.5	<0.5			<0.5	<0.5

Operator	Kan				
Sequence date	5/16/2001	5/16/2001	5/16/2001		5/17/2001
Collection date	5/16/2001	5/16/2001	5/16/2001		5/16/2001
Collection time	9.15 am	8.45am	12.20pm		11.10am
Sample Name	QL Intake	Flat Rock Dam S	Flat Rock Dam Schuyl.Riv. 476- Bridge		it Rock Dam
propylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5
o-chlorotoluene	<0.5	<0.5	<0.5		<0.5
p-chlorotoluene	<0.5	<0.5	<0.5		<0.5
1,3,5-trimethylbenzene	<0.5	<0.5	<0.5		<0.5
pentachloroethane	<0.5	<0.5	<0.5		<0.5
t-butylbenzene	<0.5	<0.5	<0.5		<0.5
1,2,4-trimethylbenzene	<0.5	<0.5	<0.5		<0.5
sec-butylbenzene	<0.5	<0.5	<0.5		<0.5
1,3-dichlorobenzene	<0.5	<0.5	<0.5		<0.5
p-cymene(p-isopropyltoluene)	<0.5	<0.5	<0.5		<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5		<0.5
1,2-dichlorobenzene	<0.5	<0.5	<0.5		<0.5
butylbenzene	<0.5	<0.5	<0.5		<0.5
hexachloroethane	<0.5	<0.5	<0.5		<0.5
1,2-dibromo-3-chloropropane	<0.5	<0.5	<0.5		<0.5
nitrobenzene	<0.5	<0.5	1.23		<0.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5		<0.5
naphthalene	<0.5	<0.5	2.2		<0.5
hexachlorobutadiene	<0.5	<0.5	<0.5		<0.5
1,2,3-trichlorobenzene	<0.5	<0.5	<0.5		<0.5 <0.5

Note:- *Not reproted but noticed acetone, estimated at <0.1 ppm. Suspected to be from glassware cleaning. **Not reported but estimated at <0.05 ppm

APPENDIX 7

PADEP ANALYTICAL DATA CANAL AND RIVER SAMPLES May 16 and 17, 2001

g I.

PARTIAL RESULTS OF WATER SAMPLES ANALYSIS (results available as of Thursday, May 24, 2001)

SAMPLES TAKEN BY D.E.P. ON WEDNESDAY 5/16 AND THURSDAY 5/17

05/24/2001 08:30:36 AM

DEP Bureau of Laboratories Analytical Report For Water Quality Protection Page: 001

Sample ID: 0120 259 05/16/2001 Status: IN PROCESS

Collector: David Burke

Collected: 05/16/2001 01:30:00 PM

County: Montgomery State: PA

Municipality: Bridgeport Boro

Location: Bridgeport Canal, 300 feet downstream of Ford Street

Reason: Routine Sampling

Fire-fighting runoff water was sampled from the canal. The sample was collected from below the water surface, so as to prevent the

entry of floating oil into the sample bottles.

Appearance: Turbid and oily.

Laboratory Sample ID: I2001023457 .

Standard Analysis: 100

IN PROCESS

Test/CAS	S# - Descriptio	n	Reported Results	Completed
00340	COD		Cancelled	05/18/2001
** Comme		Separate Sample Rece	ived	
00403	рН	EI	10.0 pH units	05/17/2001
01002H	ARSENIC T		<40 UG/L	05/18/2001
01051H	LEAD T		318 UG/L	05/18/2001
00310	BOD 5 DAY		1151. MG/L	05/22/2001
00530	T SUSP SOLID		196 MG/L	05/23/2001

Sample collected from Bridgeport Canal, during heavy runoff of fire-fighting water.

1250 available us 5/24/01

05/24/2001 12:30:35 AM

DEP Bureau of Laboratories Analytical Report For Water Quality Protection

Page: 001

COMPLETED

Sample ID: 0120 259 05/16/2001 Status: COMPLETED

Collector: David Burke

Collected: 05/16/2001 01:30:00 PM

.County: Montgomery State: PA

Municipality: Bridgeport Boro

Location: Bridgeport Canal, 300 feet downstream of Ford Street

Reason: Routine Sampling

Fire-fighting runoff water was sampled from the canal. The sample was collected from below the water surface, so as to prevent the entry of floating oil into the sample bottles.

Appearance: Turbid and oily.

Laboratory Sample ID: 02001003035

Suite: VOA-1

The analyte naphthalene does not meet QC requirements.

Test/CAS#	- Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	3.0 UG/L	05/22/2001
91203	Naphthalene	116 UG/L (E)	05/22/2001
95476	o-Xylene	12.6 UG/L (Q)	05/22/2001
71432	Benzene	39.7 UG/L	05/22/2001
100425	Styrene	13.2 UG/L (Q)	05/22/2001
108883	Toluene	95.6 UG/L (Q)	05/22/2001
108054	Vinyl Acetate	0.50 UG/L (U)	05/22/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	05/22/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	05/22/2001
120821	1,2,4-Trichlorobenzene	10.0 UG/L (U)	05/22/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	05/22/2001
75014	Chloroethene	0.50 UG/L (U)	05/22/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	05/22/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	05/22/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	05/22/2001
103651	n-Propylbenzene	0.94 UG/L	05/22/2001
104518	n-Butylbenzene	2.0 UG/L (U)	05/22/2001
108678	1,3,5-Trimethylbenzene	2.1 UG/L	05/22/2001
108861	Bromobenzene	0.50 UG/L (U)	05/22/2001
109999	Tetrahydrofuran	29.5 UG/L (BQ)	05/22/2001
124481	Dibromochloromethane	0.50 UG/L (U)	05/22/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	05/22/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	05/22/2001

05/24/2001 12:30:35 AM

DEP Bureau of Laboratories Analytical Report For Water Quality Protection

Sample ID: 0120 259 05/16/2001 Status: COMPLETED

Page: 002

mast/CAS# -	Description	Reported Results	Completed
			05/22/2001
591786	2-Hexanone	2.2 UG/L (J) 0.50 UG/L (U)	05/22/2001
594207	2,2-Dichloropropane	0.50 00, -	05/22/2001
75252	Bromoform	0.30 00/ = 1.	05/22/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	05/22/2001
67641	Acetone	1720 UG/L (Q)	05/22/2001
74953	Dibromomethane	0.50 UG/L (U)	05/22/2001
75274	Bromodichloromethane	0.69 UG/L	05/22/2001
75694	Trichlorofluoromethane	1.0 UG/L (U)	05/22/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	05/22/2001
87616	1,2,3-Trichlorobenzene	10.0 UG/L (U)	05/22/2001
95498	o-Chlorotoluene	4.6 UG/L	05/22/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	05/22/2001
95636	1,2,4-Trimethylbenzene	6.6 UG/L	05/22/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	
99876	4-Isopropyltoluene	0.43 UG/L (J)	05/22/2001
	Bromomethane	72.2 UG/L (Q)	05/22/2001
74839	MEK	5360 UG/L	05/22/2001
78933	Chloroethane	0.50 UG/L (U)	05/22/2001
75003	Chloromethane	0.50 UG/L (U)	05/22/2001
74873	p-Chlorotoluene	0.50 UG/L (U)	05/22/2001
106434	Carbon Disulfide	97.6 UG/L (Q)	05/22/2001
75150	1,1-Dichloroethane	0.50 UG/L (U)	05/22/2001
75343	1,2-Dichloroethane	0.50 UG/L (U)	05/22/2001
107062	1,1-Dichloroethene	0.50 UG/L (U)	05/22/2001
75354	trans-1,2-Dichloroethene	0.50 UG/L (U)	05/22/2001
156605	trans-1,2-Dichiologuide	17.3 UG/L (Q)	05/22/2001
75092	Methylene Chloride	0.50 UG/L (U)	05/22/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	05/22/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	05/22/2001
98066	Tert-Butylbenzene	13.8 UG/L (Q)	05/22/2001
100414	Ethylbenzene	0.50 UG/L (U)	05/22/2001
56235	Carbon Tetrachloride	0.71 UG/L	05/22/2001
98828	Isopropylbenzene	978 UG/L (Q)	05/22/2001
108101	MIBK	3.7 UG/L	05/22/2001
135988	Sec-Butylbenzene	16.6 UG/L (Q)	05/22/2001
127184	Tetrachloroethene	0.50 UG/L (U)	05/22/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	05/22/2001
79016	Trichloroethene	35.8 UG/L (Q)	05/22/2001
108383	m/p-Xylene	0.50 UG/L (U)	05/22/2001
563586	1,1-Dichloropropene	0.50 UG/L (0)	05/22/2001
108907	Chlorobenzene		05/22/2001
67663	Chloroform	0.50 UG/L (U) 0.10 UG/L (U)	05/22/2001
98566	PCTFB	0.10 UG/L (U)	05/22/2001
106934	1,2-Dibromoethane	0.50 06/1 (0)	

05/24/2001 12:30:35 AM

DEP Bureau of Laboratories Analytical Report For Water Quality Protection Page: 003

Sample ID: 0120 259 05/16/2001

Status: COMPLETED

Test/CAS#	- Description	Reported Results	Completed
87683	Hexachlorobutadiene	0.50 UG/L (U)	05/22/2001

ORGANICS LABORATORY QUALIFIERS

- U Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.
- J Indicates an estimated value, below the quantification limit, but above the method detection limit.
- N Indicates presumptive evidence of a compound.
- B This flag is used when the analyte is found in the associated blank as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- P This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.
- Q This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.
- (Underline) The compound is present at the amount reported. No flag.
- X Non-target analytes co-elute with compound. Identification unable to be confirmed.

05/24/2001 08:32:10 AM DEP Bureau of Laboratories Analytical Report For

Water Quality Protection

Sample ID: 0109 154 05/17/2001 Status: IN PROCESS

Collector: Alan Everett

Collected: 05/17/2001 10:50:00 AM

County: NOT INDICATED

State: Municipality: NOT INDICATED

Location: NOT INDICATED Reason: Routine Sampling

Laboratory Sample ID: I2001023742

IN PROCESS

Standard Analysis: 050

Test/CAS	# - Description	Reported Results	Completed
01002H 01051H 71900X 01032 ** Comme	ARSENIC T LEAD T MERCURY T CHROMIUM HEX nt ** No Separate Sample Received.	<4.0 UG/L <1.0 UG/L <1 UG/L Cancelled ived	05/18/2001 05/18/2001 05/18/2001 05/21/2001
32730D	Phenols-Dist	6.42 UG/L	05/23/2001

Sample collected from Schuylkill River upstream of Continental Business Center (500 feet downriver from DeKalb Street Bridge).

Page: 001

05/24/2001 08:32:10 AM DEP Bureau of Laboratories Analytical Report For Water Quality Protection

Page: 001

Sample ID: 0109 154 05/17/2001 Status: COMPLETED

Collector: Alan Everett

Collected: 05/17/2001 10:50:00 AM

County: NOT INDICATED State:

Municipality: NOT INDICATED

Location: NOT INDICATED Reason: Routine Sampling

Laboratory Sample ID: 02001002142 COMPLETED

Suite: VOA-1

Test/CAS#	- Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.71 UG/L	05/23/2001
91203	Naphthalene	0.50 UG/L (U)	05/23/2001
95476	o-Xylene	0.50 UG/L (U)	05/23/2001
71432	Benzene	0.50 UG/L (U)	05/23/2001
100425	Styrene	0.50 UG/L (U)	05/23/2001
108883	Toluene	0.064 UG/L (J)	05/23/2001
108054	Vinyl Acetate	0.50 UG/L (U)	05/23/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	05/23/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	05/23/2001
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	05/23/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	05/23/2001
75014	Chloroethene	0.50 UG/L (U)	05/23/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	05/23/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	05/23/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	05/23/2001
103651	n-Propylbenzene	0.50 UG/L (U)	05/23/2001
104518	n-Butylbenzene	0.50 UG/L (U)	05/23/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	05/23/2001
108861	Bromobenzene	0.50 UG/L (U)	05/23/2001
109999	Tetrahydrofuran	1.0 UG/L (U)	05/23/2001
124481	Dibromochloromethane	0.50 UG/L (U)	05/23/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	05/23/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	05/23/2001
591786	2-Hexanone	2.5 UG/L (U)	05/23/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	05/23/2001
75252	Bromoform	0.50 UG/L (U)	05/23/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	05/23/2001
67641	Acetone	18.3 UG/L	05/23/2001
74953 75274	Dibromomethane	0.50 UG/L (U)	05/23/2001
75694	Bromodichloromethane	0.50 UG/L (U)	05/23/2001
75094	Trichlorofluoromethane	0.50 UG/L (U)	05/23/2001

DEP Bureau of Laboratories Analytical Report For Water Quality Protection

Sample ID: 0109 154 05/17/2001 Status: COMPLETED

Test/CAS#	- Description	Reported Results	Completed
75718	Dichlorodifluorormethane	0.50 UG/L (U)	05/23/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	05/23/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	05/23/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	05/23/2001
95636	1,2,4-Trimethylbenzene	0.064 UG/L (J)	05/23/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	05/23/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	05/23/2001
74839	Bromomethane	0.093 UG/L (JB)	05/23/2001
78933	MEK	2.5 UG/L (U)	05/23/2001
75003	Chloroethane	0.50 UG/L (U)	05/23/2001
74873	Chloromethane	0.089 UG/L (J)	05/23/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	05/23/2001
75150	Carbon Disulfide	0.50 UG/L (U)	05/23/2001
75343	1,1-Dichloroethane	0.50 UG/L (U)	05/23/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	05/23/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	05/23/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	05/23/2001
75092	Methylene Chloride	0.50 UG/L (U)	05/23/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	05/23/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	05/23/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	05/23/2001
100414	Ethylbenzene	0.50 UG/L (U)	05/23/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	05/23/2001
98828	Isopropylbenzene	0.50 UG/L (U)	05/23/2001
108101	MIBK	2.5 UG/L (U)	05/23/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	05/23/2001
127184	Tetrachloroethene	0.50 UG/L (U)	05/23/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	05/23/2001
79016	Trichloroethene	0.50 UG/L (U)	05/23/2001
108383	m/p-Xylene	1.0 UG/L (U)	05/23/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	05/23/2001
108907	Chlorobenzene	0.50 UG/L (U)	05/23/2001
67663	Chloroform	0.50 UG/L (U)	05/23/2001
98566	PCTFB	0.50 UG/L (U)	05/23/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	05/23/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	05/23/2001

3 / 3

Page: 002

05/24/2001 08:32:34 AM

DEP Bureau of Laboratories Analytical Report For Water Quality Protection

Page: 001

Sample ID: 0109 155 05/17/2001 Status: IN PROCESS

Collector: Alan Everett

Collected: 05/17/2001 11:15:00 AM

State: County: NOT INDICATED

_____ Municipality: NOT INDICATED

Location: NOT INDICATED Reason: Emergency

IN PROCESS Laboratory Sample ID: I2001023743

Standard Analysis: 050

	at Description	Reported Results	Completed
01002H 71900X 01032	ARSENIC T MERCURY T CHROMIUM HEX ent ** No Separate Sample	10.4 UG/L <1 UG/L Cancelled Received	05/18/2001 05/18/2001 05/21/2001
** Commo	LEAD T Phenols-Dist	52.0 UG/L 120. UG/L	05/21/2001 05/23/2001

Sample collected from Bridgeport Canal where it discharges to the Schuylkill River (2000 feet east of Continental Business Center).

Canal Discharge

05/24/2001 08:32:34 AM

DEP Bureau of Laboratories Analytical Report For Water Quality Protection

Sample ID: 0109 155 05/17/2001 Status: COMPLETED

Collector: Alan Everett

Collected: 05/17/2001 11:15:00 AM

County: NOT INDICATED State:

Municipality: NOT INDICATED

Location: NOT INDICATED Reason: Emergency

Laboratory Sample ID: 02001002144 COMPLETED

Suite: VOA-1

Test/CAS#	- Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	1.6 UG/L	05/23/2001
91203	Naphthalene	33.4 UG/L (Q)	05/23/2001
95476	o-Xylene	3.4 UG/L	05/23/2001
71432	Benzene	3.9 UG/L	05/23/2001
100425	Styrene	4.5 UG/L	05/23/2001
108883	Toluene	15.3 UG/L (Q)	05/23/2001
108054	Vinyl Acetate	0.50 UG/L (U)	05/23/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	05/23/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	05/23/2001
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	05/23/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	05/23/2001
75014	Chloroethene	0.50 UG/L (U)	05/23/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	05/23/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	05/23/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	05/23/2001
103651	n-Propylbenzene	0.50 UG/L (U)	05/23/2001
104518	n-Butylbenzene	0.36 UG/L (J)	05/23/2001
108678	1,3,5-Trimethylbenzene	0.76 UG/L	05/23/2001
108861	Bromobenzene	0.50 UG/L (U)	05/23/2001
109999	Tetrahydrofuran	2.1 UG/L	05/23/2001
124481	Dibromochloromethane	1.0 UG/L	05/23/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	05/23/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	05/23/2001
591786	2-Hexanone	0.34 UG/L (J)	05/23/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	05/23/2001
75252	Bromoform	0.50 UG/L (U)	05/23/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	05/23/2001
67641	Acetone	629 UG/L	05/23/2001
74953	Dibromomethane	0.50 UG/L (U)	05/23/2001
75274	Bromodichloromethane	2.0 UG/L	05/23/2001
75694	Trichlorofluoromethane	0.50 UG/L (U)	05/23/2001

Cand Discharge 2 & 3

Page: 001

DEP Bureau of Laboratories Analytical Report For Water Quality Protection

Status: COMPLETED

Page: 002

Sample II	0109	155	05/17/2001	Statu
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Cand Discharge

05/24/2001 08:32:42 AM

DEP Bureau of Laboratories Analytical Report For Water Quality Protection

Page: 001

Sample ID: 0109 156 05/17/2001 Status: COMPLETED

Collector: Alan Everett

Collected: 05/17/2001 11:45:00 AM

County: NOT INDICATED State:

Municipality: NOT INDICATED

Location: NOT INDICATED Reason: Emergency

Laboratory Sample ID: I2001023846 COMPLETED

Standard Analysis: 050

Test/CAS	S# - Description	Reported Results	Completed
01002H	ARSENIC T	<4.0 UG/L	05/18/2001
01051H	LEAD T	1.3 UG/L	05/18/2001
71900X	MERCURY T	<1 UG/L	05/18/2001
00927A	MAGNESIUM T	16.9 MG/L	05/21/2001
01012A	BERYLLIUM T	<1.0 UG/L	05/21/2001
01027A	CADMIUM T	<10.0 UG/L	05/21/2001
01032A	CHROMIUM HEX	Cancelled	05/21/2001
** Comme	ent ** No Separate Samp	ple Received	
01034A	CHROMIUM T	<50.0 UG/L	05/21/2001
01042A	COPPER T	<10.0 UG/L	05/21/2001
01045A	IRON T	272.0 UG/L	05/21/2001
01055A	MANGANESE T	103.0 UG/L	05/21/2001
01067A	NICKEL T	<50.0 UG/L	05/21/2001
01092A	ZINC T	24.0 UG/L	05/21/2001
01105A	ALUMINUM T	<200.0 UG/L	05/21/2001
32730D	Phenols-Dist	12.1 UG/L	05/23/2001

Sample collected from Schuylkill River downriver from Continental Business Center (approximately 1.5 miles downstream of fire site).

Dounstream 193

05/24/2001 08:32:42 AM DEP Bureau of Laboratories Analytical Report For Water Quality Protection

Page: 001

Sample ID: 0109 156 05/17/2001 Status: COMPLETED

Collector: Alan Everett

Collected: 05/17/2001 11:45:00 AM

State: County: NOT INDICATED

Municipality: NOT INDICATED

Location: NOT INDICATED Reason: Emergency

COMPLETED Laboratory Sample ID: 02001002146

Suite: VOA-1

Test/CAS# -	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.67 UG/L	05/23/200.1
91203	Naphthalene	0.50 UG/L (U)	05/23/2001
95476	o-Xylene	0.50 UG/L (U)	05/23/2001
71432	Benzene	0.50 UG/L (U)	05/23/2001
100425	Styrene	0.50 UG/L (U)	05/23/2001
108883	Toluene	0.31 UG/L (J)	05/23/2001
108054	Vinyl Acetate	0.50 UG/L (U)	05/23/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	05/23/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	05/23/2001
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	05/23/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	05/23/2001
75014	Chloroethene	0.50 UG/L (U)	05/23/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	05/23/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	05/23/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	05/23/2001
103651	n-Propylbenzene	0.50 UG/L (U)	05/23/2001
104518	n-Butylbenzene	0.50 UG/L (U)	05/23/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	05/23/2001
108861	Bromobenzene	0.50 UG/L (U)	05/23/2001
109999	Tetrahydrofuran	1.0 UG/L (U)	05/23/2001
124481	Dibromochloromethane	0.50 UG/L (U)	05/23/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	05/23/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	05/23/2001
591786	2-Hexanone	2.5 UG/L (U)	05/23/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	05/23/2001
75252	Bromoform	0.50 UG/L (U)	05/23/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	05/23/2001
67641	Acetone	27.0 UG/L (Q)	05/23/2001
74953	Dibromomethane	0.50 UG/L (U)	05/23/2001
75274	Bromodichloromethane	0.50 UG/L (U)	05/23/2001
75694	Trichlorofluoromethane	0.50 UG/L (U)	05/23/2001

Downstream 2 y 3

DEP Bureau of Laboratories Analytical Report For Water Quality Protection

Sample ID: 0109 156 05/17/2001 Status: COMPLETED

+/CDS# -	Description	Reported Results	Completed
Test/CAS# - 75718 37616 95498 95501 95636 96184 99876	Description Dichlorodifluorormethane 1,2,3-Trichlorobenzene o-Chlorotoluene 1,2-Dichlorobenzene 1,2,4-Trimethylbenzene 1,2,3-Trichloropropane 4-Isopropyltoluene	0.50 UG/L (U) 0.50 UG/L (U) 0.50 UG/L (U) 0.50 UG/L (U) 0.065 UG/L (J) 0.50 UG/L (U) 0.50 UG/L (U)	Completed
74839		0.082 UG/L (JB) 1.2 UG/L (J)	05/23/2001
78933 75003 74873	MEK Chloroethane Chloromethane	0.50 UG/L (U) 0.50 UG/L (U) 0.50 UG/L (U)	05/23/2001 05/23/2001 05/23/2001
106434 75150	p-Chlorotoluene Carbon Disulfide 1,1-Dichloroethane	0.50 UG/L (U) 0.50 UG/L (U)	05/23/2003 05/23/2003 05/23/2003
75343 107062 75354	1,2-Dichloroethane	0.50 UG/L (U) 0.50 UG/L (U)	05/23/200 05/23/200 05/23/200
156605 75092	trans-1,2-Dichloroethene Methylene Chloride	0.50 UG/L (U) 2.0 UG/L (J) 0.50 UG/L (U)	05/23/200 05/23/200
78875 142289	1,2-Dichloropropane 1,3-Dichloropropane Tert-Butylbenzene	0.50 UG/L (U) 0.50 UG/L (U)	05/23/200 05/23/200
98066 100414 56235	Ethylbenzene Carbon Tetrachloride	0.50 UG/L (U) 0.50 UG/L (U) 0.50 UG/L (U)	05/23/200 05/23/200 05/23/200
98828 108101	Isopropylbenzene MIBK	0.50 UG/L (U) 2.5 UG/L (U) 0.50 UG/L (U)	05/23/200 05/23/200
135988 127184 71556	Sec-Butylbenzene Tetrachloroethene 1,1,1-Trichloroethane	0.50 UG/L (U) 0.50 UG/L (U) 0.50 UG/L (U)	05/23/200 05/23/200 05/23/200
79016 108383	Trichloroethene m/p-Xylene 1,1-Dichloropropene	1.0 UG/L (U) 0.50 UG/L (U)	05/23/20 05/23/20
563586 108907 67663	Chloroform	0.50 UG/L (U) 0.50 UG/L (U) 0.50 UG/L (U)	05/23/20 05/23/20 05/23/20
98566 106934 87683	PCTFB 1,2-Dibromoethane Hexachlorobutadiene	0.50 UG/L (U) 0.50 UG/L (U)	05/23/20 05/23/20

Page: 002

APPENDIX 8

ANALYTICAL RESULT J-BUILDING BASEMENT WATER

ž. **E**(



1008 W. Ninth Avenus - King of Prussia, Pannsylvania 19406 (610) 337-9992 FAX (610) 337-9939

May 23, 2001

(610) 292-8493

LEWIS ENVIRONMENTAL GROU

P.O. BOX 639

Royersford, PA 19468

RE: Bridgeport

Enclosed are the results of analyses for sample(s) received by the laboratory on May 22, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely.

Project Manager

The TKN + Phenot will be available a famorrow.



1008 W. Ninth Avenue . King of Prussia, Pennsylvania 19406 . 3,4610) 337-8992 FAX (610) 337-8939

LEWIS ENVIRONMENTAL GROUP

P.O. BOX 639

Royersford, PA 19468

Project.

Project Manager

Bridgeport

Project Number

NA

Sampled:

5/22/01 :leccived: 5/22/01

Reported: 5/23/01 16:51

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
3837-basement water	K105396-01	Water	5/22/01



LEWIS ENVIRONMENTAL GROUP

P.O. BOX 639 Royers ford, PA 19468

Project Project Number

Project Manager

Bridgeport

NA

Sampled: 5/22/01

Received: 5/22/01

Reported: 5/23/01 16:51

Priority Pollutant Metals by EPA 6000/7000 Series Methods GLA Laboratories. Inc

	Batch	Date	Date	Specific	Reporting	**		111
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
3837-basement water			K1053	96-01			Water	to
Arsenic	1050296	5/23/01	5/23/01	EPA 60 TUB	0.030	ND	mg/l	
Beryllium	•	••	•	EPA 6010B	0.0040	ND		W ₂₈ = 12
Cadmium	•	*	v	EPA 6010B	0.0040	0.012	-	
Chromium	•			EPA 6010B	0.020	0.045		as W. Ja
Copper		•		EPA 6010B	0.010	0.54	9	100
Nickel	4	••	-	EPA 6010B	0.050	0.090	-	
Selenium	•		14.	EPA 6010B	0.050	ND	•	
Silver	•		w	EPA 6010B	0.010	ND	11	7,
Zine			4	EPA 6010B	0.020	3.0	•	



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P.O. BOX 639 Royersford, PA 19468

Project Project Number NA Project Manager

Bridgeport

(b) (4)

Sampled:

5/22/01 Received: 5/22/01

Reported: 5/23/01 16:51

Total Metals by EPA 6000/7000 Series Methods GLA Laboratories, Inc

	Batch	Date	Date	Specific	Reporting			1.
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
					7			
3837-basement water			K1053	96-01			Water	x 3.3
Antimony	1050297	5/22/01	5/23/01	EPA 7041	25.0	153	Ug/l	DILN
Lead		M	•	EPA 7421	100	620		DILN
Mercury	1050311	5/23/01	**	EPA 7-170A	0 00100	0.00130	mg/l	9
Thallium	1030297	5/22/01		EPA 7841	2.00	ND	ug/I	1



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LEWIS ENVIRONMENTAL GROUP PO. BOX 639

Project.

Bridgeport

Sampled: Received: 3/22/01

5/22/01

Royersford, PA 19468

Project Number NA Project Manager

(b)

Reported: 5/23/01 16:51

Tentatively Identified Compounds by GC/MS GLA Laboratories, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
3837-hasement water			K1053	96-01			Water	19
NONE	1050287	5/22/01	5/22/01	EPA 8260B	5.0	, אם	ug/l	



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LEWIS ENVIRONMENTAL GROUP

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Royersford, PA 19468

Project: Bridgeport

Project Number: NA Project Manager

(b)(4)

Sampled: 5/22/01

Received: 5/22/01

Reported: 5/23/01 16:51

Volatile Organic Compounds by EPA Method 8260B GLA Laboratories, Inc

	Batch	Darc	Date	Surroguic	Reporting.			
Analyte	Number	Prepured	Analyzed	Limits	Limit	Result	Unics	Notes.
3837-basement water			K1053	96-01			Water	
Acetone	1050237	5/22/01	5/22/01	20-01	50	140	ug/l	1
Benzene	1030237	7	3/22/1/1		1.0	3.7	- ug/1	100 1
Bromodich10romethane	•				1.9	ND	•	522
Bromoform		: :	**		20	ND	•	-
Bromomethane	•		**		2.0	אס	,,	
2-Bucanone		•			10	55		
Carbon disulfide			-		2.0	2.3		4.
Carbon tetrachloride		4			2.0	ND	и	
Chlorobenzene		_	*		2.0	ND	11	
Chlorodibromomethane			0		2.0	סא		
Chloroethaus		a			2.0	ND		4.
Chieroform		,,			2.0	3.0	_	SF2
Chloromethane					100	12.5	•	0
1.1-Dichloroethane		781			2.0.	ND	1)	ent d
	-		_		2.0	ND		5.7
1,2-Dichtoroethane			near		20	מא	u	
1,1-Dichloroethene	0	200	4		2,8	ND	·	1.0
cis-1,2-Dichloroethene	ii .		**		2.0	ND		28
trans-1,2-Dichloroethene					2.0	ND	•	
1,2-Dichloropropane		190	•		2.0	ND	•	7 1 4
cis-1,3-Dichloropropene		•	4		20 .	ND	•	9 1
trans-1.3-Dichloropropene			**		2.0	ND	•	
Ethylhenzene	•	•	••		20	ND	1.0	21 II
2-Hexanone	•		•		19	סא		e 9:
Methylene chloride	•	•	-		\$0.	ND	•	soe ?
4-Mcthyl-2-pentanone	. 1	•			10	ND	•	* - 1
Methyl tert-butyl other	: M	** 0	***		2:0	ND	ü	
Styrene	a	•	n		2.0	ND	•	7
1.1.2.2-Tetrachloroethane	•	•	•		2.0-	ND	•	¥
Tetrachloroethene	•	•	h		1.0	ND	4	1.
Toluene	₩ s				2.0	3.2	0	W N.
1.1.1-Trichloroethane		•			2:0	ND		yes 10
1.1.2-Trichloroethane	•	•	**		2.0	ND	14	V
Trichloroethene	9₩.		H		1.0	ND	14	
Trichlorofluoromethanc		2			2.0	ND	10	30
Vinyl chlonde	•	*	**		2:0	ND	•	*
o.m-Xylene	•				4.0	ND	*	
-Xylene	•		300		2,0	ND	4	1
Surregule. Dibromofluoromethane				80-120		98	36	

GLA Laboratories, Inc

"Refer to end of report for text of notes and definitions.



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LEWIS ENVIRONMENTAL GROUP P.O. BOX 639 Royersford, PA 19468

Project Bridgeport

Sumpled: 3/22/01

Project Number NA

Received. 5/22/01

Project Manager:

Reported: 5/23/01 16:51

Volatile Organic Compounds by EPA Method 8260B GLA Laboratories, Inc.

(b) (4)

	Batch	Dale	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
					ř			*** ** *** ***
3837-basement water (continued)			K1053	96-01	N (1) (2) (3)		Water	
Surrogais: 1.2-Dichloroethane-d4	1050297	5/22.01	5/22/01	70-120		28	%	
Surrogate: Toluene-d8	•			10-120		98	~	1/4
Surrogate: 4-Bromofluwobenzene	•	*	∴e	80-120		98	•	1



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LEWIS ENVIRONMENTAL GROUP

P.O. BOX 639

Royerstard, PA 19468

Project: Bridgeport

Project Number. NA Project Manager

(b) (4)

Sampled: 5/22/01

Received: 5/22/01

Reported: 5/23/01 16:51

General Chemistry GLA Laboratories. Inc

	Batch	Date	Date	Specific	Reporting			
Analyto	Number	Prepured	Analyzed	Method	Limit-	Result	Units	Notes*
3837-basement water			K1053	96-01	*	597	Water	* 1
ρH	1050323	5/22/01	5/22/01	EPA 904013		8.54	pH Units	1,



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LEWIS ENVIRONMENTAL GROUP

Project

Bridgeport

Sampled:

5/22/01

P.O. BOX 639 Royorsford, PA 19468

Project Number Project Manager

(b)

Received: 5/22/01 Reported: 5/23/01 16:51

Notes and Definitions

Note

Analyzed at 3.30 PM

DILN

Due to matrix interference and or sample dilution the detection limits for this sample have been clevated.

DET

Analyte DETECTED

1D

Analyte NOT DETECTED at or above the reporting limit

Not Reported

Sample results reported on a dry weight basis

locov.

Recovery

UD

Relative Percent Difference

The Reporting Limit stated is based on a calculation derived from the Method Detection Limit Study.

The Reporting Limit may not represent the lowest point on the calibration curve.

LA Laboratories Inc

LEWIS ENVIRONMENTAL GROUP

GLA Laboratories, Inc Work Order K105396

Project/Client Information

Submitted By

Project Name

LEWIS ENVIRONMENTAL GROUP

Report To

LEWIS ENVIRONMENTAL GROUP

(b) (4)

P.O. BOX 639

Royersford, PA 19468

P.O. BOX 639

Invoice To

Royersford, PA 19468

Project Number

NA

Bridgeport

Phone: 610-4:15-6695

Fax: 610-495-6697

Phone: 610-495-6695

Fax: 610-495-6697

Work Order Information

(b) (4)

Received

5/22/01 12:03

(b) (4)

Report TAT - Due

1 day(s) - 5/23/01

Logged In

5/22/01 12:26

(b) (4)

Work Order Comments

Please fax and mail results

Containers are unbroken.

Sample labels/COC agree.

Samples preserved properly.

Samples Received at 3°C

Sample/Analysis Information Sampled RTA LabNumber SampleName Matrix Expires Analysis Requested Due T Commenty 105396-01 Weter 3837-basement water 5/22/01 6/5/01 8260 5/23/01 1 6/5/01 8260 TICS 5/23/01 1 5/23/01 pH water 9040 5/23/01 1 6/19/01 Phenuls-420.2 5/23/01 1 6/19/01 Prionty Metals H2D 5/23/01 1 6/19/01 TKN-351.2 5/23/01 1

Reviewed By



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LEWIS ENVIRONMENTAL GROUP P.O. BOX 639

Project Number: NA

Project: Bridgeport

Sampled: 5/22/01

Royersford, PA 19468

Project Manager

(b) (4)

Received: 5/22/01

Reported: 5/24/01 16:57

General Chemistry Great Lakes Analytical

nalyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
837-basement water			K1053	96-01			Water	2
Total Kjeldahl Nitrogen	1050493	5/23/01	5/24/01	EPA 351 2	0.200	2.99	mgΛ	10 To 10
Thenol	1050529	•	•	EPA 421).2	0.150	0.820	•	G1

LA Laboratories, Inc

*Refer to entrof tepart for text of notes and definitions.

Page 8 of 9

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APPENDIX 9

ASSESSMENT DOCUMENT "POST-FIRE INCIDENT" SITE ASSESSMENT

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Continental Business Complex Bridgeport, PA

Post-Fire Incident

Site Assessment

05-31-01

Prepared by: CWO Leo Deon, USCG Atlantic Strike Team BM1 Pat McNeilly, USCG Atlantic Strike Team Mike Towle, EPA Bob Kelly, EPA 05-31-01 On May 18, 2001, the EPA On-Scene Coordinator (OSC) initiated an assessment of potential environmental or safety issues resulting from fire or building collapse at the Continental Business Center in Bridgeport, PA. Dozens of structures were affected by a large fire beginning 16 May 01. Several of the buildings in the business center contained moderate or large amounts of hazardous substances or oily materials. When fire damaged the containers for these materials and fire-fighting waters (or subsequent precipitation events) enabled these materials to migrate, the environmental and public health was potentially threatened. On 16 and 17 May, contractors undertook significant efforts to contain and remove oily material that migrated from the fire scene to the Schuylkill River and a canal which flowed under the business complex. Additional effort was, however, necessary to characterize other potential threats posed by the Site.

The OSC interviewed the owner of the business complex and other knowledgeable personnel as well as surveyed the fire scene. In addition to the identification of more routine potential hazards (machinery, uneven surfaces, pooled waters, sharp objects, structural hazards, and overhead hazards), it was apparent that several locations within the complex contained additional suspect items (e.g., drums, cylinders, containers) that would warrant specific attention and potential removal prior to demolition or other activity to remove the fire damage.

The OSC directed members of the US Coast Guard Atlantic Strike Team to assist the OSC with identification of specific potential environmental or safety hazards posed by individual structures or businesses involved in the fire. Strike Team members and OSCs Towle and Kelly individually assessed structures and then combined the efforts in this document. This "Post-Fire Incident Site Assessment" focused solely upon the potential threats visible from external or otherwise safe locations at each structure or business. This document contains a summary of the items identified at each location and specific photo-documentation. All potential hazards may not be identified in this summary document.

Areas with potential environmental or safety hazards should be specifically addressed to avoid mixing of potentially hazardous items with the bulk construction/demolition debris at each location.

This document was provided to the owner to ensure that appropriate environmental consideration is part of future demolition/dismantlement plans.

In addition to minor items as noted in the following pages, particular attention is necessary at the following buildings:

- (1) Buildings C-101/111/115: Cleanup activity is needed at this location due to the large amount of oily material that may contaminate the debris, the large amount of containers that may contain residual materials, and the oily releases that cause oily discharge to nearby storm drains and Schuylkill River. It is probable that much of the debris in this area will be classified as a residual waste. Care should be taken to avoid mixing potentially clean items (e.g., walls) that may remain in this area. Dikes, berms, covers, and decontamination are necessary to stop continuing oily discharges to the storm drains and River. Recyclable materials in this area may need gross decontamination.
- (2) Building C-127: Several drums in this building area should be removed before demolition as well as limited areas of unknown releases (e.g., yellow powder). An area along the west wall

appeared to hold some liquid and should be examined as a potential sump of potentially contaminated liquid. Cylinders in this area should be removed.

- (3) Building H: This building poses several potential environmental and safety hazards. A large amount of possible asbestos-containing material is located in this structure. Some of the possible ACM is in poor condition. A large number of drums and containers are present in this building. The building also apparently drains into the River through a basement drain system. Hazardous materials and ACM should be removed from this building before any demolition or dismantlement.
- (4) Building J: The water that pools in building J was found to contain elevated levels of lead and some other contaminants. This water migrates to the Schuylkill River through drainage system. Potentially contaminated materials in this building will drain to the River.
- (5) Buildings C-119/123, 131, 147,158/168, 165, 177, and 185 each have small amounts of suspect containers that should be removed.
- (6) Building M17: Cleanup activity is needed at this location due to the large amount of oily material that may contaminate the debris, the large amount of containers that may contain residual materials, and the oily releases that cause oily discharge to nearby storm drains and canal. It is probable that much of the debris in this area will be classified as a residual waste. Care should be taken to avoid mixing potentially clean items (e.g., walls) that may remain in this area. Dikes, berms, covers, and decontamination are necessary to stop continuing oily discharges to the storm drains and canal. Recyclable materials in this area may need gross decontamination.
- (7) Building M101: Cleanup activity is underway at this location. However, much of the remaining debris may contain residual contamination necessitating decontamination or disposal. Additionally, the basement area of M101 contains chemicals that have migrated from the first floor. The basement also appears to contain residual materials from historical operations. The materials in the basement drain into the canal (or other locations) through unknown pathways. Unless these materials are addressed, the basement poses a continuing environmental threat.
- (8) the possibility of PCB contaminated debris should be evaluated at Building G before this building is demolished.
- (9) the location of ACM throughout the facility should be evaluated before demolition causes releases or mixing of wastestreams.

Michael Towletter for EPA OSC

31 May 01

	C-111/115: George Auto Supply Four (04) 48FT Box Trailers with:	Aerosols Cans-Unknown Material Shock Absorbers Oil Filters Turtle Wax Car Wash in Plastic Bottles Brake Drums Brake Rotors Brake Pads Brake Pads Brake Shoes Freon Cylinders Expended Paste Wax in Plastic Containers Anti-Freeze Containers-Plastic De-Greasers (Unknown Manufactures) Oil Absorbent-Bulk
100	55 & 35 Gallon Drums	
	Aerosol Cans Freon Cylinders-Small	
	Freon Cylinders-Large	
	Large Quantity of 1-Gallon Cans-U	
	3-200 Gallon Holding Tanks-unkn 8-5 Gallon Metal Containers-unkn	own Contents
0	Oily runoff to river and to drains	
	Oily in rear pavement	
	Oily in front pavement	
C-119/	123: Label Rite, Inc. (Partial Geo	orge Auto Supply)
0	Gray powder on floor Numerous 5 gallon containers	
	Numerous 3 ganon containers	
C-127	: MCC Inc.	Land Linknown Material (Possibly
	Approx 25-55 Gallon Drums, oper Aluminum Oxide)	n top and closed, -Unknown Material (Possibly
	Unknown drain / Sump west wall	
	Phosphoric Acid? In 5 gallon pail	s, moved to staging
	Yellow Powder Cylinders	
_	C) initacio	
C-131	: Salmons Industries, Inc. Heavy Industrial Equipment Unknown Drum Drum with solid Approximately six cylinders	g g
	Numerous drums (empty – open to	op, some oily)
C-135	: League Collegiate Wear, Inc. No Specific environmental issues	

C-141: Unknown Facility Name

• No Specific environmental issues

C-146: Panther Products East

No Specific environmental issues

C-147: Main Line Lawn Service, Inc.

- □ 1-200 Gallon Tank-Unknown Material
- 3-55 Gallon Drums-Unknown Material
- Numerous small containers
- □ 1 Flatbed Truck-Inoperable
- □ 1 Small Dump Truck-Inoperable
- □ 2 Vehicles outside North Loading area-Inoperable
- Possible pesticides

C-150: M. L. Floor Covering

- □ Forklift on Loading Dock
- Large Quantity of Small Industrial Equipment
- □ Carpet
- No Specific environmental issues

C-151: Keystone Supply

- General Office Material
- □ Empty Metal Shelving
- Industrial supply and safety equipment
- No Specific environmental issues

C-158/C-168: Penncora Productions, Inc.

□ 5-55 Gallon Drums-Unknown Material

C-165: Sherman-Gosweiler

- Moderate Weight Industrial Equipment
- □ Cabinet / Carpentry shop
- □ Numerous gallon and 5 gallon cans
- □ Some drums
- Organic odor on west end

C-174: Pergamon Corporation

No Specific environmental issues

C-177: Restoration Station

- Furniture stripping
- Numerous gallon cans and some drums

C-178: Tech - Pac

- General Office Equipment
- Wire Spools
- No Specific environmental issues

C-185: Valley Forge Candle Co. Approx 10-3 Gallon Metal Containers-Unknown Material □ 1-55 Gallon Drum-Unknown Material Abundance of Approx 6 Ounce Metal Candle Containers Wax on Floor C-188: U.S. Equipment Brokers, Inc. □ General Office Material C-191: Wire crafters, Inc. Welding and painting supplies C-193/C-201: A.R.B. Breadcrumbs ☐ General Office Material Some small containers □ Drain between 193 and 201 No Specific environmental issues □ Basement Drain C-201 C-198: Sweetzels Cookies 9-Pallets of Vegetable Shortening (50 Lb Single Cubes) Large Mixing Equipment Plastic Storage Containers-Unknown Material □ Flour/Flour Residue Large Quantity Bread-Opened Large Quantity Bread-Plastic Wrapped Cookies-Palletized & Partially Broken Open Pallets of Wafers, Crackers, Cookies-Boxed and Wrapped Weight Moving/Handling Equipment □ Foul Smell H - Boiler House Muriatic acid (poly containers) 55 Gal Drums Corrosives Pallets of Brake shoes 5 Gal Buckets Unknowns 55 Gal Drums of Sludge 55 Gal Drums of Unknowns Asbestos Wrapped Pipes / on the floor □ 1 Gal Cans of paints and Thinners □ 30 Gal Poly Drums Basement & Drains to River? J-Buildings Basement Passes Water to River. Water Quality was Suspect. (Lead)

M-11: Brunner & Lay, Inc.

Mining/Construction tools

M-13: Dovar Mechanical, Inc.

M-15: Unknown Facility Name

M-17: George Auto Supply

- Material Believed to be Zinc Chromate-Unknown Quantity
- ☐ Abundance of 55 Gallon Metal Drums-Unknown Material
- ☐ Abundance of 5 Gallon Metal Pails-Unknown Material
- ☐ Abundance of 1 Gallon Metal Cans-Unknown Material
- □ Abundance of Freon Cylinders (East Side M-101)-Unknown Material
- □ Abundance of Aerosol Cans (East Side M-101)-Unknown Material
- □ Abundance of Oil Filters (East Side M-101)
- Oily Runoff to Drains, Pavement, Canal

M-101: MCC Warehouse, Inc.

- □ Chemicals See EPA info.
- Basement Contamination with Tanks & Drains

M-135: Partial MCC Warehouse – (see M101)

- Oxy-Acetylene Cutting Equipment-Unusable
- 3-5 Gallon Plastic Diesel Containers-Empty
- □ 1-5 Gallon Plastic Kerosene Container-Empty
- □ 2 Vessels (2nd Floor)-Unknown Condition
- □ 3 Approx 12 Gallon Metal Holding Tanks (Upper Deck Platform)
- □ Some Empty 55 Gal. Drums
- Cylinders
- Basement- Unknown Condition/Drains with Tanks & Drums

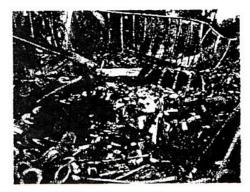
M-155: Printers Printer, Inc.

- Printing Equipment
- Basement

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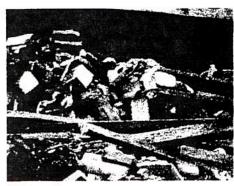
Bridgeport Fire Photo Log 30 May 2001 Photos By BM1 Pat McNeilly

1. Bldg. C101, Georges Auto Supply

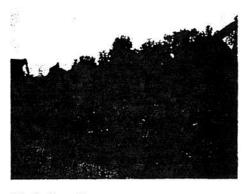




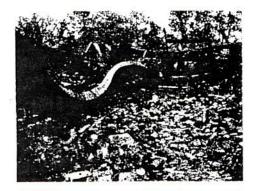
Paints, oil filters, aerosol cans, car wax and soap in trailers



Antifreezes



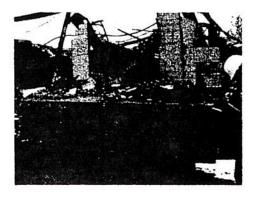
55 Gallon Drums



Oil filters and freon containers

(**2**) i i .

2. Bldg. C-127 MCC, Inc.

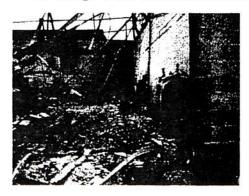


Corrosive staining

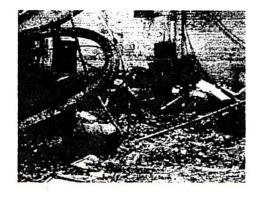


55 Gallon drum and unknown white powder

3. Bldg. C-147 Mainline Lawn Service



Heating oil tank and 55 gallon drums



55 gallon drums and lawn equipment

4. Bldg. C-177 Restoration Station



Aerosol paint and 55 gallon drums

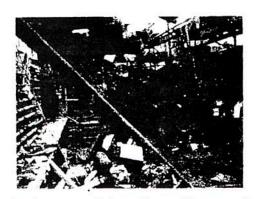
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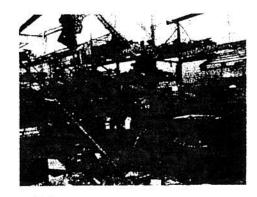
5. Bldg. C-185 Valley Forge Candle Co.



Candle wax, candle molds, 55-gallon drums and 5 gallon containers

6. Bldg. C-193 ARB Breadcrumbs



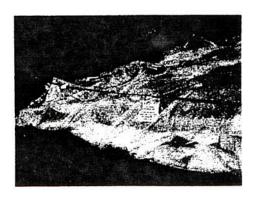


Repair shop containing oils, antifreeze and general shop waste

7. Bldg. J-130 Centex Environment



PCB Contaminant pile



Asbestos Pile

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8. MCC Loading Dock

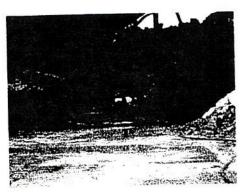


Contractor Waste, paint cans

9. MCC Warehouse



Sulphate



Lead Chromate in background. Residual Titanium Dioxide on floor.

10. Bldg. M-17 Auto warehouse supply



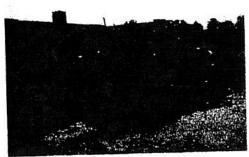
Oil jugs, aerosols, oil filters, and lead chromate (Bldg. M-135)



Aerosols

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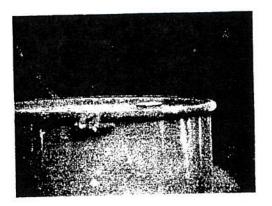


Freon and aerosols

11. MCC Warehouse



55 gallon drums, puddle of copper, and venting drum



Venting drum

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APPENDIX 10

EPA SAFETY MEMO

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION III 1650 Arch Street Philadelphia, PA 19103 TOWLE - 3HS31

SUBJECT:

Site Safety and air monitoring

Continental Business Center

FROM:

Michael Towle, Schant Son

EPA Region III

TO:

File

date:

01 June 01

cc:

Bushar Corp.

Since 18 May 01, the EPA On-Scene Coordinator (OSC) has assisted or functioned as Site Safety Officer for fire suppression, fire investigation, and other environmental operations in response to a fire and environmental cleanup at the Continental Business Center. The OSC also conducted monitoring activities to ensure that operations or conditions at the Site did not pose a threat to human health or the environment. The OSC engaged the services of representatives of the U.S. Coast Guard Atlantic Strike Team and Tetra Tech EMI to execute these roles. The OSC fulfilled these functions at the request of and in response to Local, County, and Federal level officials.

The following were accomplished.

- (1) Routine air monitoring was conducted to ensure that fire emissions and potential chemical releases did not pose a threat to the community or workers at the Site. If necessary, work zones and PPE levels would be established to ensure protection of workers and community. If necessary, measures to reduce smoke or otherwise reduce toxic emissions were recommended. The air monitoring for this effort is no longer required since fire is not an issue. The OSC also advised appropriate PPE and respiratory protection levels should workers need to work in chemical zones. Tetra Tech EMI implemented air monitoring.
- (2) Routine air monitoring was conducted to ensure that potential emissions from environmental work areas (i.e., MCC Warehousing) did not pose a threat to the community and other workers on the Site (e.g., utility workers, business persons, etc.). Air monitoring was a tool used to ensure that workers and community members not part of Site operations were protected. Tetra Tech EMI implemented this air monitoring. Routine levels indicate that Site operations are not anticipated to pose a threat to the community **as conducted**. Additional operations will warrant additional monitoring on an action-specific basis. The OSC understands that the owner is preparing a work plan at this time.

- (3) The OSC initiated a Site-wide notification and evacuation plan to ensure that persons in the burned area of the complex would know what to do in the event of an unexpected release. USCG-AST personnel implemented that system through the use of personnel, signals, and radio contact. This system ensured that persons not intimately involved in the environmental operations could be notified in the event of an unexpected release as quickly as those that are involved.
- (4) The OSC directed that a Site wide health and safety plan be developed to comply with OSHA 1910.120. These regulations require qualified individuals to develop and implement Safety Plans to ensure the protection of workers at hazardous sites. The environmental contractor developed a plan for their own employees; EPA developed a plan to ensure the safety of others.

Beginning C.O.B. 01 June 01, the OSC expects to no longer provide personnel to ensure the safety of workers and visitors at the Continental Business Center. The OSC has reviewed the environmental contractor (Lewis) Safety Plan and finds it suitable for workers in the active environmental work zones. The OSC finds that current operations, as conducted, are not expected to impact the community.

The OSC has advised the owner's representatives of the need for overall Site Safety, a system to secure the Site and ensure the safety of persons entering the Site areas, and monitoring to ensure that the Site operations do not pose a threat to the community or environment. The OSC believes that this is now the owner's sole responsibility.

The OSC notified the owner of the OSC's actions, provided the owner with excerpts of 1910.120, provided this document to the owner, and made recommendations for future actions this day.

Recommendations:

- (1) Develop Site Safety Plan covering all of the Site. Specific work zones can be addressed under the overall Site Safety Plan.
- (2) Identify a Site Safety Officer to cover the overall Site operations. Contractors working in specific environmental areas will continue to be responsible for the safety of their personnel.
- (3) Development and implement air monitoring to ensure that specific work zones or overall Site conditions (and future expected work) does not impact operating businesses and the community.
- (4) Utilize personnel meeting the training requirements of 29 CFR 1910.120 to implement Site Safety.

APPENDIX 11

POLLUTION REPORTS (POLREPS)

POLREP 01
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

- I. Situation (as of 2200 hrs. 16 May 01) EVENT: CERCLA Emergency Response
- A. A fire was discovered at approximately 1300 hrs. 15 May 01 at the Bridgeport Industrial Park located along several blocks of Front Street in Bridgeport, Montgomery County, PA. The Bridgeport Fire Departments initiated response. The fire quickly spread due to a common roof and elevated wind conditions causing response by a variety of local fire companies. The fire burned out of control for more than 12 hours destroying or significantly affecting nearly 50 business operations within the complex. A variety of chemicals were stored in a few locations within the complex. The fire was declared under control at approximately 0330 hrs. 16 May 01.
- B. The EPA was requested to assist with environmental matters at the scene by Montgomery County officials at approximately 0900 hrs. this day. The On-Scene Coordinator arrived at approximately 1015 and surveyed the incident with County and Local officials. Active fire and flareups were visible in several portions of the multi-building complex, but most of the complex was simply smouldering. The Pennsylvania Department of Environmental Protection (PADEP) was onscene and actively working with a contractor (Lewis) hired by the complex owner to contain fire runoff water from further contaminating the adjacent Schuylkill River. Downstream water users were already notified and PADEP indicated that River monitoring was underway. Air monitoring was not conducted. The OSC was requested to evaluate the chemicals potentially in the facility and make recommendations for ongoing and continuing actions and assist where possible.

II. Actions

- A. The OSC coordinated his actions relating to environmental matters with the Bridgeport Fire officers, Montgomery County Emergency Management and Pennsylvania DEP within a Unified Command setting. PEMA also participated in many of the environmental decisions. The Bridgeport fire officials maintained status as Incident Commander.
- B. The OSC met with officials of Pennsylvania Emergency Management Agency (PEMA), PADEP, and Montgomery County and initiated a review of available MSDS sheets and information supplied by the Industrial park owner. Most available information specific to individual companies was burned in the fire. Some information was made available by the complex owner and his staff. A listing of potential chemicals involved in fire was developed based upon MSDS and other information.

- C. The OSC requested chemical expertise from EPA and the START contractor (Tetra Tech). These persons reviewed the available information and identified which chemicals might potentially persist in a fire and pose a threat once the major fire diminished and a smouldering fire continued (i.e. diminishing heat). This list of chemicals of potential concern was then forwarded by the OSC to the Agency for Toxic Substances and Disease Registry (ATSDR) and discussed. The conversation indicated that some chemical degradation may pose a threat to unprotected persons when the fire diminished. As such the OSC recommended and implemented air monitoring activities and a level of respiratory and dermal protection for persons that will work in the chemical warehouse area.
- D. PADEP continued to recommend and implement improvements to the system installed to contain runoff water or spills. However, since the complex is built over a canal which leads into the River and the entire complex drainage discharges into the River, this exercise proved difficult and the onsite strategy dealt mainly with containing spills on the River with boom. Individual outlets from the complex were boomed. Additionally, containment boom was placed on the canal and River proper. Additionally, one underflow structure was built in a major overland flow location. An oily sheen is located along the west bank of the River and floating oily product exists on the canal.
- E. Based upon the review of potential chemicals in the runoff and discussions with ATSDR, the OSC recommended that PADEP further advise downstream water users to conduct analyses for amine and phenol compounds. PADEP agreed to implement this request.
- F. The OSC contacted the owner of a chemical storage warehouse and requested an onsite meeting 17 May 01 along with the PADEP. The warehouse contains a variety of chemicals (although the owner is still working on a current inventory) that are under the collapsed roof structure. The likely chemicals currently stored contain a large variety of hazardous substances and continue to pose a threat to the environment and public. When this building no longer is engaged in fire (flareups continue), the owner will be requested to conduct immediate stabilization and containment activities.
- G. The OSC requested Community Involvement support. EPA CIC Deitzel coordinated with the onscene PADEP spokesperson on developing information for release to the media. The OSC attended a news briefing at Borough Hall lead by Borough of Bridgeport officials and CIC Deitzel dealt directly with media at the scene.
- H. Unified Command members met at the end of this day to discuss night time operations and plan for activities of 17 May 01. This night, Fire officials will focus on removal of an unstable multi-story wall in an area that is not involved with known chemicals. This wall must be removed to enable safe entry by fire officials to extinguish a large portion of the remaining fire. A demolition contractor has been engaged by the Local Officials. This night, Lewis Environmental will remain onscene to contain runoff water and spills. If the chemical warehouse collapses this night, runoff will be contained. If the warehouse flares up, firefighting will occur from a distance. EPA will conduct air monitoring before morning

operations. On, 17 May, Command will meet with the owners of the complex and warehouse and indicate the immediate need for environmental evaluation of the complex to ensure safety of future activities and stabilization of the deteriorated warehouse and chemicals.

- III. Future Actions
- A. The OSC has directed that START (Tetra Tech) conduct air monitoring this evening/early morning of 17 May.
- B. Continue activities to minimize discharge of contaminated runoff water.
- C. Coordinate actions for stabilizing the chemical warehouse location.
- D. Coordinate actions for evaluating remaining areas of potential environmental concern in order to facilitate future demolition or re-entry into burned areas once the fire is extinguished.

Michael Towle, OSC EPA Region III Philadelphia, PA 19103 POLREP 02
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

Incident Commander.

C. Kleeman

I. Situation (as of 1700 hrs. 17 May 01)

EVENT:

CERCLA Emergency Response

Oversight of PRP emergency stabilization activities without enforcement instrument

- A. Hot spots within the burned complex continued to smolder throughout the night of 16/17 May and this day. Drums of chemicals within a storage warehouse ignited during the night requiring fire suppression. Foam was used this day to put out fire in an auto parts facility. Demolition activities focused on demolition of high walls to facilitate access for fire fighters to hot areas of the complex. Contractors hired by the complex owner continue to contain oily runoff that enters a canal which runs beneath the complex and the Schuylkill River. The overall Incident Command is maintained by the Borough of Bridgeport. EPA and PADEP continue to provide support to fire operations and direct environmental operations through Unified Command. Activities this day focused on completion of air sampling, developing a plan for stabilization of the chemical storage warehouse, and developing an overall strategy for characterizing potential environmental concerns in the remainder of the complex. The OSC and PADEP believe that the main area of concern to the public is the chemical storage warehouse and that the remainder of the complex primarily poses a threat of runoff into the waterways. Strategies for environmental protection are coordinated through the Bridgeport
- B. A significant message from the Site to the community remains that the fire caused a significant damage to the economic vitality of the Bridgeport area (loss of business and loss of jobs). The fire damaged or destroyed nearly half of the businesses in the community. PEMA is organizing applications for loans and the State is also facilitating unemployment applications for those that lost their jobs. Additionally, EPA air data demonstrates that air quality at this time does not pose a threat to the community. PADEP activities ensure that the waterway impacts are minimized. The owner of the complex has provided and met all requests from EPA and PADEP at this time enabling the Site message to reduce the emphasis on environmental and public health impacts.
- II. Actions
- A. The OSC continues to coordinate his actions and direct actions relating to environmental matters with the Bridgeport Fire officers, Montgomery County Emergency Management and Pennsylvania DEP within a Unified Command setting. The Bridgeport fire officials maintained status as Incident Commander and maintained control of the fire scene. Local and State

police maintained overall Site security.

- B. The OSC directed air sampling during the overnight period of 16/17 May. The START contractor (Tetra Tech) monitored for amines, HCN, and HCL during this time in downwind areas. These parameters were selected after review of possible chemicals in the warehouse area, their persistent or toxic behavior in the fire, and their potential human health affects. The parameters were selected by the OSC after review by chemists from EPA and Tetra Tech and the Agency for Toxic Substances and Disease Registry (ATSDR). Additionally, these parameters would indicate emission from a chemical source rather than combustion of more routine materials and structural elements in the overall building complex. The air monitoring event confirmed that air quality in public areas does not indicate chemicals resulting from the chemical storage area of the industrial park.
- C. The OSC communicated the overnight air monitoring results to EPA and PADEP for coordinated release to the public. The OSC also communicated the results to the Incident Command and Safety Officer (Bridgeport).
- D. Based upon the potential for increased chemical concentrations in the air at the warehouse facility, EPA advised to adjust the Site perimeter in this area and to conduct air monitoring within the Site. PADEP and Bridgeport officials concurred and this activity was implemented Bridgeport police (Site perimeter) and by START contractors throughout this day. Results of colormetric tubes, HCN monitox, and PID, do not indicate elevated concentrations of chemicals in the air at this time. These results were communicated to the Bridgeport officials.
- E. ATF and Local fire investigators initiated investigative activities in the complex this day. These activities will occur prior to an overall environmental assessment of the remainder of the complex (i.e., in addition to the more urgent assessment initiated at the chemical storage warehouse). Once completed, overall environmental assessment activities will be initiated.
- F. The OSC and PADEP communicated with the owner of the chemical storage warehouse in an effort to better understand the building contents and to inform the owner of the need to conduct immediate stabilization efforts. Drums, containers, bags and other forms of chemical containers are visible in the burned and collapsed structure in addition to an area of pooled "water". Chemicals identified to date in elevated quantities include caprolactam and lead chromate. The business owner contacted his clients and requested inventory information since the owners records were burned. The clients contacted the OSC and provided information and agreed to send information to the Site. The complex owner (Bushar Organization) agreed to provide an environmental, insurance, and legal contact for the OSC and PADEP to inform of the need for cleanup. A meeting conducted this afternoon among these participants resulted in the identification of the need for cleanup, an overall strategy for the cleanup, and the request to provide definitive answer to the capability to conduct the cleanup by tomorrow morning.
- G. The OSC surveyed the oil containment area this day. Several areas of boom are stretched on the Schuylkill River and effectively deflect the oily material to a shoreline collection point.

The oily material enters the River through designed drainage systems underlying the entire complex as well as through overland flow. Where possible, underflow structures have been constructed between the Site and the River, however, there is insufficient land to effectively use this method of mitigation in all areas of the Site. Drainage outlets have protective boom at the outfall area.

- H. Oily material also enters a canal that passes beneath the complex. The oily material is contained at the location where the canal discharges to the River. Oily material is picked up with absorbent material and two vacuum trucks by Lewis Environmental inc. Oily material is not visible beyond the downstream booms.
- I. The OSC communicated Site information to the Regional Office.
- J. The OSC initiated coordination with federal natural resource trustees. No impact to aquatic community has been identified to date.
- III. Future Actions
- A. Coordinate actions for stabilizing the chemical warehouse location. Evaluate the need to conduct these actions using CERCLA authorities.
- B. Evaluate the need for enforcement instruments to ensure continuing environmental protection, stabilization, and cleanup actions.
- C. Continue to coordinate with PADEP, Borough of Bridgeport and Montgomery County to meet unmet needs and ensure appropriate environmental protection strategy.
- D. Coordinate actions for evaluating remaining areas of potential environmental concern in order to facilitate future demolition or re-entry into burned areas once the fire is extinguished.

POLREP 03
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. Situation (as of 1700 hrs. 18 May 01)

EVENT:

CERCLA Emergency Response

- A. The industrial complex is comprised of nearly 50 separate businesses. Individual names of the businesses and the name of the industrial park are not contained in this POLREP. Instead, general descriptive terminology is used.
- B. Hot spots within the burned complex continued to smolder throughout this day. Small containers of auto-related chemicals burned this day as fire suppression activities focused on a hot spot area of numerous aerosol containers and other pressurized vessels. Foam was again used this day to put out fire in the auto parts facility. Demolition activities focused on assistance to fire investigation officials. Contractors (Lewis Environmental) hired by the complex owner continue to effectively contain oily runoff that enters a canal which runs beneath the complex and the Schuylkill River. The overall Incident Command is maintained by the Borough of Bridgeport; EPA, PADEP, and Montgomery County Emergency Services form Unified Command for the environmental and safety aspects of the Site. EPA was requested to function as Site Safety beginning this day. Site activities this day continue with fire suppression, fire cause investigation, oil containment, air monitoring, water sampling, and activities related to overall characterization of potential contamination within the complex. The OSC and PADEP also facilitated an expedited stabilization by the owner of the chemical storage warehouse.
- B. EPA air monitoring results continue to indicate that elevated concentrations of chemical and degradation products believed to be related to the chemicals remaining in the warehouse area are not identified in downwind areas. Additionally, monitoring results for volatile compounds continues to show negligible levels within the operational areas. The OSC communicated with the Montgomery County Health Department to relay the results and enable the Department to factor the information into the current Health Advisory.
- C. OSC Bob Kelly performed Operational duties this day and assisted OSC Towle
- D. The START contractor (Tetra Tech) performs air monitoring activities. The USCG Atlantic Strike Team is assisting the OSC to implement Site Safety and Control.
- II. Actions

- A. A Unified Command meeting was conducted this day to coordinate activities between fire investigation and fire suppression actions. Additionally, this meeting formed the ground work for coordination between stabilization activities expected at the chemical storage warehouse and the remainder of the Site expected to be initiated soon. EPA was requested to organize and implement Site Safety. The OSC requested the assistance of the USCG Atlantic Strike Team in this matter.
- B. The OSC directed air sampling activities at the scene throughout this day. The results of the sampling and monitoring are used to ensure the safety of the investigators and others working the incident as well as nearby residents. Results within the Site perimeter continue to show negligible levels. A slightly elevated VOC reading was identified immediately prior to the ignition and burning of a pile of scorched aerosol and other pressurized containers.
- C. The OSC directed air monitoring near a business in the downwind area this day at which employees reported feeling sick. EPA air sampling results do not indicate the presence of chemicals in the smoke plume that was identified near the business location.
- D. The OSC, PADEP, USCG, and Local Fire Officials surveyed the oil collection booms on the Schuylkill River. Recommendations to modify one area of boom were made to enhance the collection of oily runoff; this change was made. The flow of oil onto the River has dissipated (fire fighting efforts are decreasing). Overall booming strategy and oil collection remains effective. Contractors use a vacuum truck to remove the oil and transfer the oily material to containment tanks.
- E. EPA collected a sample of the oily discharge this day. The sample will be analyzed for a wide variety of parameters on a quick turnaround basis. The results will help guide future cleanup operations, enable gross characterization of ponded water areas at the Site, and the level of concern necessary for containment of future runoff water at the Site
- F. Fire investigation officials continue to investigate the potential causes of the fire. Access to the investigation area is limited.
- G. The OSC and PADEP met with the owners of the chemical storage warehouse and requested immediate action to stabilize the situation (compromised chemical containers in a compromised warehouse). The owner has agreed to hire demolition and environmental contractors to conduct this work and expect them onscene tomorrow. The OSC requested that these contractors meet with the OSC and PADEP to receive available chemical information received from companies utilizing the warehouse, achieve agreement on a strategy, and to coordinate all activities with the Unified Command.
- H. Local Government Reimbursement information was forwarded to Montgomery County officials.
- I. The OSC received a Facility plan and information from the owner this day indicating building layouts, potential areas of concern, and potential areas of subgrade features. This information

will be used to guide future assessment activities and enable safer demolition activities.

- III. Future Actions
- A. Coordinate actions for stabilizing the chemical warehouse location.
- B. Continue to coordinate with PADEP, Borough of Bridgeport and Montgomery County to meet unmet needs and ensure appropriate environmental protection strategy.
- C. Coordinate actions for evaluating remaining areas of potential environmental concern in order to facilitate future demolition or re-entry into burned areas once the fire is extinguished.
- D. Complete and implement Site Safety Plan coordinating activities of fire investigation, fire suppression, warehouse stabilization, demolition, and oily material collection.

POLREP 04
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. Situation (as of 1200 hrs. 19 May 01)

EVENT:

CERCLA Emergency Response

- A. The industrial complex is comprised of nearly 50 separate businesses. Individual names of the businesses and the name of the industrial park are not contained in this POLREP. Instead, general descriptive terminology is used.
- B. Hot spots within the burned complex continued to smolder throughout this period. Demolition activities focused on assistance to fire investigation officials. Contractors (Lewis Environmental) hired by the complex owner continue to effectively contain oily runoff that enters a canal which runs beneath the complex and the Schuylkill River. The overall Incident Command is maintained by the Borough of Bridgeport; EPA, PADEP, and Montgomery County Emergency Services form Unified Command for the environmental and safety aspects of the Site. EPA continued functioning as Site Safety during this period. Site activities this period continue with fire suppression, fire cause investigation, oil containment, air monitoring, and activities related to overall characterization of potential contamination within the complex.
- B. EPA air monitoring results continue to indicate that elevated concentrations of chemical and degradation products believed to be related to the chemicals remaining in the warehouse area are not identified in downwind areas. Additionally, monitoring results for volatile compounds continues to show negligible levels within the operational areas.
- OSC's Bob Kelly and Chris Wagner performed Operational duties this peiod and assisted OSC Towle.
- D. The START contractor (Tetra Tech) performs air monitoring activities. The USCG Atlantic Strike Team is assisting the OSC to implement Site Safety and Control.
- II. Actions
- A. A Unified Command meeting was conducted this period to coordinate implementation of site safety. Basic groundwork of site safety plan, including communications, air monitoring, evacuation proceedures, and personnel accountability were discussed. USCG to conduct periodic safety inspections.

- B. The OSC directed air sampling monitoring at the scene throughout this period. The results of the monitoring are used to ensure the safety of the investigators and others working the incident as well as nearby residents. Results within the Site perimeter continue to show negligible level. Dust monitoring program was implemented.
- C. The OSC directed radiation survey within the site perimeter. No levels above background were measured. Site information indicates that potential sources were not involved in the fire.
- D. Fire investigation officials continue to investigate the potential causes of the fire. Access to the investigation area is limited.
- E. The owner hired contractor (Lewis Environmental) to handle environmental work. Environmental contractor mobilized to site this morning to began preparations for stabilization efforts at the chemical storage warehouse. Environmental contract met with OSC to receive available chemical information received from companies utilizing the warehouse, achieve agreement on a strategy, and to coordinate all activities with the Unified Command. Shultz Demolition and Domino Salvage were hired to conduct demolition work. Demolition contractors will team with environmental contractor to begin stabilization efforts.
- F. EPA directed that asbestos containing material piping be wrapped, dropped, and pulled away prior to abatement to facilitate access during emergency operations. Environmental contractor to document handling of asbestos and report that information to DEP. DEP representative has concurred with this strategy.
- III. Future Actions
- A. Coordinate stabilization actions at the chemical warehouse location.
- B. Continue to coordinate with PADEP, Borough of Bridgeport and Montgomery County to meet unmet needs and ensure appropriate environmental protection strategy.
- C. Coordinate actions for evaluating remaining areas of potential environmental concern in order to facilitate future demolition or re-entry into burned areas once the fire is extinguished.
- D. Complete and implement Site Safety Plan coordinating activities of fire investigation, fire suppression, warehouse stabilization, demolition, and oily material collection.

POLREP 05
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. Situation (as of 0800 hrs. 20 May 01)

EVENT:

CERCLA Emergency Response

- A. The industrial complex is comprised of nearly 50 separate businesses housed in a former fibre manufacturing facility. Individual names of the current businesses and the name of the industrial park are not contained in this POLREP. Instead, general descriptive terminology and location information is used.
- B. Hot, smouldering or open fire locations remain within the complex. In addition to minor areas of smouldering remains, the basement beams of the collapsed J building and the basement area beneath the chemical storage warehouse continue to burn and release smoke. Demolition activities this period continued to assist fire investigation officials and support chemical removal activities in the chemical storage warehouse. Contractors (Lewis Environmental) hired by the complex owner continue to effectively contain oily runoff that enters a canal which runs beneath the complex and the Schuylkill River. The overall Incident Command is maintained by the Borough of Bridgeport; EPA, PADEP, and Montgomery County Emergency Services form Unified Command for the environmental and safety aspects of the Site. Site activities this day continue with fire suppression, fire cause investigation, oil containment, air monitoring, and activities related to overall characterization of potential contamination within the complex.
- B. EPA air monitoring results continue to indicate that elevated concentrations of chemical and degradation products believed to be related to the chemicals remaining in the warehouse area are not identified in downwind areas. Additionally, monitoring results for volatile compounds continues to show negligible levels within the operational areas.
- C. Examination of the chemical storage warehouse location indicates that many of the chemicals have released from their containers (e.g., bags and plastic containers that burned or melted in the fire). As such, many of these materials have likely released from the building in the fire runoff. The OSC has been unable to specifically determine how runoff within the building may drain, but it likely moves to the canal through drainage designed to convey water through the basement (based upon conversation with owner). Overland runoff enters grates which enter the canal. Nearby grates are protected with boom and absorbent material. The OSC expects results of a runoff sample collected earlier on 21 May 01.

- OSC Bob Kelly and Chris Wagner performed Operational duties this period and assisted OSC Towle
- E. The START contractor (Tetra Tech) performs air monitoring activities. The USCG Atlantic Strike Team is assisting the OSC to implement Site Safety and Control.

II. Actions

- A. Unified Command issues this period included the completion of fire investigation activities followed by the demobilization of these investigative assets. As such, police officials turned over control of the scene to the Bridgeport Fire Chief.
- B. Unified Command meetings are scheduled for 1000 hrs. each day. It is expected that the Bridgeport Fire Chief will transfer control of the scene to Montgomery County Emergency Services on 21 May 2001.
- C. Bridgeport Fire continued fogging operations in the auto parts storage area containing aerosol cans, oil materials, and pressurized cylinders until approximately 1800 hrs. 19 May 2001. After fire investigation was completed in Building C, the fire department also extinguished an oily fire in Building C after the burning material was spread using heavy equipment.
- D. Contractors (Lewis Environmental) hired by the owner initiated removal of chemicals from the chemical storage warehouse. The owner, the OSC and PADEP met to discuss the strategy for removal of the chemicals from the burned warehouse. The OSC directed that the operation be a stabilization effort to ensure that further collapse of the building, precipitation events, and similar issues would not initiate a release to the environment or a threat to the nearby public. Chemicals should be moved to a staging area while minimizing spills. Ultimate cleanup may be left to future time periods. The OSC informed the contractor that the owner of the business could be contacted for assistance and that one of the clients had requested to the present when their materials were moved.
- E. Lewis contacted the client (Durr) which was very concerned about potential releases resulted from the movement of their materials. The OSC became involved in the conversation and informed the client that the materials had to be moved on an emergency basis due to the condition of the facility. The client sent their insurance agent to the scene to meet with the OSC. The OSC allowed the agent to survey the location of the materials.
- F. Barium metaborate monohydrate was removed from the chemical storage area and transferred to a Staging area constructed on the west side of the warehouse.
- G. 15 5-gallon phosphoric acid containers were moved from the location of building C (127) to the Staging Area. These containers were not within the chemical storage warehouse and will be kept separate according to the contractor.
- H. After many hours of water spray onto a hot area of pressurized vessels and oil that burned and

flared frequently, the runoff water started to discolor green and the pH began to rise. The environmental contractor (Lewis) began to contain the water and pump into a storage tank. PADEP informed that neutralization of the water could enable discharge from the Site.

- Fire cause investigation activities were completed this period and demobilization from the Site was conducted at approximately 1600 hrs. 19 May.
- J. After completion of fire cause investigation, the police presence on the Site was decreased and Site security was turned over to the owner.
- K. Preparation of the decontamination and staging area in support of chemical operations included demolition of adjacent high walls of J building. The demolition contractor (Schultz) is working for Lewis Environmental in this effort.
- L. Oil containment and recovery operations continue throughout this period.
- M. The OSC directed air sampling activities at the scene throughout this day. The results of the sampling and monitoring are used to ensure the safety of the investigators and others working the incident as well as nearby residents. Results within the Site perimeter continue to show negligible levels.

III. Future Actions

- A. Continue to coordinate actions related to stabilization of the chemical warehouse location (a portion of the M Building). Actions include ensuring containment of potential additional releases.
- B. Continue to coordinate with PADEP, Borough of Bridgeport and Montgomery County to meet unmet needs and ensure appropriate environmental protection strategy and Site safety.
- C. Coordinate actions for evaluating remaining areas of potential environmental concern in order to facilitate future demolition or re-entry into burned areas once the fire is extinguished.

POLREP 06
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. Situation (as of 1800 hrs. 20 May 01)

EVENT:

CERCLA Emergency Response

- A. The industrial complex is comprised of nearly 50 separate businesses housed in a former fibre manufacturing facility. Individual names of the current businesses and the name of the industrial park are not contained in this POLREP. Instead, general descriptive terminology and location information is used.
- B. Fire suppression activities this day focused on remaining small areas of smouldering or otherwise smoke emitting hot spots. Ground crews went through building C and addressed remaining fire areas. A fire in the large timbers within the basement of building J was also extinguished. The only area of visible fire remains within the basement of building M under the location of the chemical storage warehouse. Site activities this day continue with oil containment and recovery, air monitoring, fire suppression, chemical warehouse stabilization, and related support activities. Demolition operations occurred on the M building along Front Street to remove unstable walls.
- B. EPA air monitoring results continue to indicate that elevated concentrations of chemical and degradation products believed to be related to the chemicals remaining in the warehouse area are not identified in downwind areas. Additionally, monitoring results for volatile compounds continues to show negligible levels within the operational areas. Monitoring this day included monitoring specific to vinyl chloride due to concerns about PVC piping in the basement of M building. No vinyl chloride was detected.
- C. The START contractor (Tetra Tech) performs air monitoring activities. The USCG Atlantic Strike Team is assisting the OSC to implement Site Safety and Control.
- II. Actions
- A. Command and safety meetings were conducted this period between EPA (USCG), Bridgeport Fire, Lewis Environmental. This days activities include removal of chemicals from the storage warehouse, demolition of unstable walls in the area, extinguishment of fire in buildings C and J, collection and containment of oil. Operations in the warehouse are level C at this time.

- B. Bridgeport Fire extinguished fire in building C using ground crews and aerial spray. No visible smoke is observed at the end of this day from C building.
- C. Bridgeport Fire extinguished fire in the collapsed basement of Building J using aerial spray. No visible smoke is observed at the end of the day from J building.
- D. Based upon knowledge of the owner, the basement under the chemical storage warehouse is full of old machinery and PVC pipe and is contiguous with many adjacent structures including unburned buildings. Due to concern about the spread of fire, an entry was made into the basement by Bridgeport Fire and USCG personnel. Entry was made in an area that did not exhibit fire. The entry team was able to determine that the likelihood of the spread of fire to unburned structures through the basement was low and the fire in the basement was located in the wood beams/supports of the overlying floor.
- E. The demolition contractor was directed to remove a portion of the floor of the M building to enable fire suppression to address the fire closest to the Lewis Environmental work zone. Water was applied to the wood beams.
- F. Water ponded in the basement of building J was collected and subjected to Hazardous Categorization testing by the START contractor. The ponded water did not exhibit characteristics suggestive of increased contamination. The water is slowly draining from the basement. The owner indicates that the water drains from a pipe in the basement to the Schuylkill River. Based upon the rate of drainage, the pipe is likely to be partially blocked. The OSC will monitor this situation and request sampling should conditions so indicate.
- G. The OSC and START contractor continued efforts to determine how the complex drains into the River and canal. These efforts are used to best contain water that is potential contaminated by ongoing operations. Active inlets are protected by boom. At this time, containment of storm runoff that may run through the exposed chemicals will be exceedingly difficult to accomplish based upon review of facility plans, Site inspection, and conversation with the owner.
- H. Oil containment booms continued to be rehabilitated this period. Padding is changed and removed in anticipation of upcoming rain events.
- I. The OSC and USCG initiated characterization efforts of overall Site conditions.
- J. Contractors (Lewis Environmental) hired by the owner continued removal of chemicals from the chemical storage warehouse. The chemicals are segregated as best as possible and moved to a secure location. Todays activities occur in a portion of the building which is not currently involved in fire.
- K. Demolition contractors removed 4 story walls along Front Street. After the debris is cleared, the gas company can shut off the gas feeding the open flames in this area. Until this time, this activity could not occur due to potential collapse of the severely compromised M structures.

L. The OSC directed the removal of an asbestos covered pipe along a bridge spanning the roadway to the chemical staging area. Due to the urgency of the situation, the OSC directed that the pipe be wrapped, cut, dropped, and moved prior to abatement. The action should occur under a water fog. The OSC consulted with DEP and received concurrence with this emergency procedure. Lewis is instructed to formally notify PADEP 21 May 2001.

III. Future Actions

- A. Continue to coordinate actions related to stabilization of the chemical warehouse location.
- B. Continue to coordinate with PADEP, Borough of Bridgeport and Montgomery County to meet unmet needs and ensure appropriate environmental protection strategy and Site safety.
- C. Coordinate actions for evaluating remaining areas of potential environmental concern in order to facilitate future demolition or re-entry into burned areas once the fire is extinguished.
- D. The Borough has requested the OSC to brief the community at a meeting on 22 May 2001.
- E. Assist the owner to keep personnel expected to return to their business locations safe from the chemical warehouse stabilization operations. The OSC has instructed USCG to brief each of these entities about emergency evacuation procedures.
- F. Review analytical results and collect additional data as necessary to ensure that runoff does not pose a threat to the environment during upcoming operational periods

POLREP 07
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. Situation (as of 1800 hrs. 21 May 01)

EVENT:

CERCLA Emergency Response

- A. The industrial complex is comprised of nearly 50 separate businesses housed in a former fibre manufacturing facility. Individual names of the current businesses and the name of the industrial park are not contained in this POLREP. Instead, general descriptive terminology and location information is used.
- B. EPA (and PADEP), Mongtomery County Emergency Services, and owner's contractor representative (Lewis Environmental) maintained Unified Command for environmental issues during this days operations. EPA coordinated all issues with PADEP representatives onsite. This days environmental operations included continued oil recovery on the River and canal, continued stabilization of the chemical storage warehouse, and continued Site Safety. The OSC also directed that EPA assets (Atlantic Strike Team) assist the owner with safety of business owners and insurance personnel on Site this day. The operational period is 0700 through 1900; oil recovery operations continue 24 hours each day. The OSC coordinates environmental issues with owners environmental consultant (Alpha Environmental).
- C. EPA air monitoring was not conducted this day due to rain. Other than smoke from remaining fire in the basement of the M building in the chemical warehouse area, no emissions were observed.
- D. Site stabilization activities and containment of runoff waters continue to be conducted by Lewis Environmental under contract to the owner of the entire complex.
- II. Actions
- A. Command and safety meetings were conducted this period with EPA, Bridgeport Fire, Montgomery County Emergency Services, owner, and Lewis Environmental. Safety concerns this period included increased presence of business owners and insurance personnel. USCG and EPA conducted safety briefings, escorted personnel, or otherwise ensured safety of persons from chemical hazards on site. The owner was informed that he had responsibility for persons that may want to enter buildings; the OSC advised that these persons not enter the structures.

- B. EPA, USCG, and START examined the Site during this days precipitation and identified Site drainage pathways. Information was forwarded to Lewis Environmental for consideration during booming and similar protection strategies. Inlets on the Site have protective boom.
- C. The OSC and START contractor completed consideration of possible strategies for containment of Site runoff in addition to removal of floating oily material. Most options involved containment or pumping of water within or from the canal. These efforts were deemed impractical during precipitation events since the canal passes water from streets in the Borough of Bridgeport causing potentially significant flows. The OSC determined that the analytical results of runoff liquids collected 18 May should be evaluated prior to constructing additional Site-wide containment of potentially contaminated runoff. These analytical results are expected this day.
- D. Initial analytical results from PADEP sampling of River water and verbal results of EPA sampling of runoff water were received. The results indicate that certain contaminants are increased in the Site runoff. Results do not initially suggest that extraordinary measures be taken to capture all Site drainage. The OSC consulted with PADEP and determined that oily material leaving the Site should continue to be contained, but that additional runoff protection may rely solely upon protection of source areas from precipitation (e.g., tarps, covers, booms, dams). The chemical warehouse area drains directly into the canal and the pipes within the structure are not accessible at this time. Additional analytical information is needed for areas where water can be collected. This decision will be revisited tomorrow when analytical results are received and reviewed.
- E. The basement of the J building continues to hold water; although water slowly passes to the River through designed drainage now inaccessible. EPA hazardous categorization testing does not indicate that the water is particularly harmful. Lewis Environmental was directed this day to collect a water sample from the basement and analyze the sample. The results will be used to determine if this water can continue to pass to the River or should be otherwise addressed. EPA and PADEP concur on this approach.
- F. The Site owner (environmental consultant) was requested to notify PADEP that asbestos covered piping along a bridge was wrapped, but that the pipe was dropped without abatement. The OSC and PADEP agreed to this approach based upon the urgency of the situation.
- G. Lewis Environmental continues to remove chemicals from the chemical storage warehouse and stage these materials on the northwest side of the former building. Additional structure was also demolished to better access the chemicals.
- H. Several automobiles that were destroyed by the fire were removed from the Site this day.
- I. The OSC and USCG entered one of the buildings in the M complex this day to inspect possible suspect materials adjacent to the chemical storage warehouse. No materials were identified although several cylinders (no longer pressurized) were visible along with several

empty drums.

- J. EPA, START, and USCG continue characterization of the overall Site in an effort to locate and evaluate possible areas of hazardous or oily materials within the debris and Site.
- K. The gas company was on Site this day to shut gas to the small fire along Front Street. This was made possible by demolition of unstable high walls along Front Street and removal of debris in the area.
- III. Future Actions
- A. Continue to coordinate actions related to stabilization of the chemical warehouse location.
- B. Continue to coordinate with PADEP, Borough of Bridgeport and Montgomery County to meet unmet needs and ensure appropriate environmental protection strategy and Site safety.
- C. Coordinate actions for evaluating remaining areas of potential environmental concern in order to facilitate future demolition or re-entry into burned areas.
- D. The OSC was requested to participate in a public meeting at Bridgeport Borough Hall.
- E. Assist the owner to keep personnel expected to return to their business locations safe from the chemical warehouse stabilization operations. The OSC has instructed USCG to brief each of these entities about emergency evacuation procedures.
- F. Review analytical results and collect additional data as necessary to ensure that runoff does not pose a threat to the environment during upcoming operational periods.
- G. Evaluate the possibility of entering the basement from the southeast corner (excavation and demolition would be necessary) in order to best contain liquids from migrating from the chemical storage warehouse into the canal.
- H. Assist with safety for electrical personnel expected on Site to reroute power.
- I. Ensure PADEP notification of asbestos operation.

POLREP 08 Bridgeport Industrial Park Fire ER int. Front and Ford Sts. Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. Situation (as of 1800 hrs. 22 May 01)

EVENT:

CERCLA Emergency Response

- A. The industrial complex is comprised of nearly 50 separate businesses housed in a former fibre manufacturing facility. Individual names of the current businesses and the name of the industrial park are not contained in this POLREP. Instead, general descriptive terminology and location information is used.
- B. EPA (and PADEP), Mongtomery County Emergency Services, and owner's contractor representative (Lewis Environmental) maintained Unified Command for environmental issues during this days operations. EPA coordinated all environmental issues with PADEP representative onsite. This days environmental operations included rehabilitation of booms that were compromised by last nights rain event, continued oil recovery on the River and canal, continued stabilization of the chemical storage warehouse, and continued Site Safety. The OSC continued to direct that EPA assets (Atlantic Strike Team) assist the owner with safety of business owners and insurance personnel on Site this day. The operational period is 0700 through 1900; oil recovery operations continue 24 hours each day.
- C. EPA air monitoring was conducted only during a portion of this day due to rain. Other than smoke from remaining fire in the basement of the M building in the chemical warehouse area, no emissions were observed. The smoke from the basement area of the chemical storage warehouse causes a noticeable odor that continues into downwind areas. EPA monitoring does not indicate elevated concentrations of monitored compounds other than sulfur dioxide. Sulfur dioxide was detected at concentrations of approximately 5 ppm directly in the source area. This level is at the 15 minute STEL concentration of NIOSH and the OSHA Permissible Exposure Limit. Downwind areas do not have this concentration.
- D. Site stabilization activities and containment of runoff waters continue to be conducted by Lewis Environmental under contract to the owner of the entire complex.
- II. Actions
- A. Command and safety meetings were conducted this period with EPA, Bridgeport Fire, Montgomery County Emergency Services, and Lewis Environmental. Safety concerns this period included increased presence of utility personnel, business owners and insurance

- personnel. USCG and EPA conducted safety briefings, escorted personnel, or otherwise ensured safety of persons from chemical hazards on site.
- B. EPA, USCG, and START examined the Site during early morning precipitation and identified potential improvements to containment in the operational area of the chemical storage warehouse. Lewis Environmental was advised of potential runoff concerns. A bermed area was constructed to control drainage from entering the canal near an inlet in the vicinity of P building. A vacuum truck periodically removed pooled liquids. Operational changes in the warehouse were instituted (minimizing flow into drains and holes in the floors, covering of chemicals, and separation of work zones) that minimized chemical migration outside of the building footprint.
- C. Runoff from the area of the auto supply location in M building (M-19) continues to contribute oily material to the River via overland flow to street inlets on the Middle Road near C building (C-111). Boom and absorbent padding is placed at these inlets. Periodically, accumulated liquids are removed using a vacuum truck. A vacuum truck was also deployed to the area of burned out building M-19 (auto supply) and oily and green liquids were removed. A manhole is suspected in this area of M-19 with direct access to the canal.
- D. An oiled gosling was found in the boom and transported to Tri-State Bird for rehabilitation. The OSC notified federal trustees and discussed the situation with US DOI and USFWS. As a result of these discussions, the OSC directed shoreline assessment activities to evaluate the existence of oiled areas near identified or possible nests.
- E. A shoreline assessment was conducted by START and owner environmental representative (Alpha Environmental). Goose nesting areas were identified and an area of oily debris on the shoreline was also identified. Lewis Environmental was requested to remove oily debris.
- F. The OSC discussed the possibility of chemical contamination on the oiled bird with Tri-State representative. Based upon review of available chemical information and the concentration of chemical found in the runoff water, the OSC advised that the gosling be handled as if it were oiled only, e.g., other chemicals would not pose additional hazard to Tri-State personnel.
- G. The lead chromate was removed from the chemical storage warehouse this day. No visible signs of the yellow colored material was visible beyond the footprint of the warehouse. Removed chemicals are segregated into storage containers within the Staging area.
- H. The OSC received full analytical data from the runoff water collected on 18 May. Data indicate elevated concentration of petroleum hydrocarbon material and low levels of a variety of organic chemicals and elements. A review of the sample indicates that many of the chemicals would indeed preferentially exist in the oily layer as previously indicated by verbal results. Collection of the oily layer will result in collection of much of the discharged chemicals. Organic chemical concentrations in the water phase of the sample are not elevated to levels of concern for human health or environment (especially once entering the River).

Some inorganic elements are elevated above levels that may pose a threat to aquatic organisms (aluminum, zinc, cadmium).

- PADEP provided analytical results of samples collected by the Philadelphia Water Department. Results do not obviously indicate elevated concentrations of contaminants in down River areas linked to the discharge from the Site.
- J. Demolition contractors assisted EPA in investigating possible entrance ways into the basement area of the chemical storage warehouse. Although one access corridor was cleared (hallway in northeast corner), the path was through small hallways with heavy oily liquid. Another effort was made along the south face of the warehouse, but this area had no basement. Considering the constituents of the smoke and the safety concerns of entry through accessways currently identified, the OSC directed that no entry be made to attempt to access, identify, and plug drains from the basement area. Considering the entry difficulties, Bridgeport fire and Montgomery County Emergency Services agreed that entry to address lingering fire issues was also not appropriate at this time.
- K. After continued review of available analytical data, the mechanism of release of runoff from the contaminated areas, and considering access difficulties to further prevent discharges from the basement areas, The OSC continued to determine that no additional activities were practical to stop potential releases from the warehouse area. Activities to further secure stored chemicals and contain runoff from the Staging area have resulted in reduced potential for offsite migration of chemical.
- L. The basement of the J building continues to hold water; although water slowly passes to the River through designed drainage now inaccessible. Lewis Environmental collected a water sample from the basement for analysis. The results will be used to determine if this water can continue to pass to the River or should be otherwise addressed. EPA and PADEP concur on this approach.
- M. The Site owner (environmental consultant) notified PADEP that asbestos covered piping along a bridge was wrapped, but that the pipe was dropped without abatement. The OSC and PADEP agreed to this approach based upon the urgency of the situation.
- N. EPA, START, and USCG continue characterization of the overall Site in an effort to locate and evaluate possible areas of hazardous or oily materials within the debris and Site.
- O. The electric company was on Site this day to address damaged electrical poles along the north side of the Site. Upper Merion Township officials were also onsite to ensure that intrusive activity related to the electric would not compromise their force main which runs through the Site.
- P. The OSC attended a Borough council meeting last night to brief the community about environmental, safety, and health issues.

III. Future Actions

- A. Evaluate possible entry/accessways into the basement area of the chemical storage warehouse to attempt to access, identify, and plug drains and address lingering fire issues.
- B. Continue to coordinate actions related to stabilization of the chemical warehouse location.
- C. Continue to coordinate with PADEP, Borough of Bridgeport and Montgomery County to meet unmet needs and ensure appropriate environmental protection strategy and Site safety.
- D. Coordinate actions for evaluating remaining areas of potential environmental concern in order to facilitate future demolition or re-entry into burned areas.
- E. Assist the owner to keep personnel expected to return to their business locations safe from the chemical warehouse stabilization operations. The OSC has instructed USCG to brief each of these entities about emergency evacuation procedures.
- F. Review analytical results and collect additional data as necessary to ensure that runoff does not pose a threat to the environment during upcoming operational periods.
- G. Meet with owner to transfer environmental information, determine strategy for addressing demolition without causing environmental harm and keeping community safe from potential releases of hazardous substances.

POLREP 09
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. Situation (as of 1900 hrs. 23 May 01)

EVENT:

CERCLA Emergency Response

- A. The industrial complex is comprised of nearly 50 separate businesses housed in a former fibre manufacturing facility. Individual names of the current businesses and the name of the industrial park are not contained in this POLREP. Instead, general descriptive terminology and location information is used.
- B. EPA (and PADEP), Mongtomery County Emergency Services, and owner's contractor representative (Lewis Environmental) maintained Unified Command for environmental issues during this days operations. EPA coordinated all environmental issues with PADEP representative onsite. This days environmental operations included rehabilitation of booms that were compromised by last nights rain event (one boom was lost due to increased current), continued oil recovery on the River and canal (although amounts are significantly decreasing), continued stabilization of the chemical storage warehouse (about 30% complete), and continued Site Safety. The OSC continued to direct that EPA assets (Atlantic Strike Team) assist the owner with safety of business owners and insurance personnel on Site this day. The operational period is 0700 through 1900; oil recovery operations continue 24 hours each day.
- C. EPA air monitoring was again conducted only during a portion of this day due to rain. Smoke continues to originate from the basement of the chemical storage warehouse; it appears that smoke originates from wooden beams and sheets that make up the support for the concrete floor of the warehouse. The smoke from the basement area of the chemical storage warehouse causes a noticeable odor that continues into downwind areas. EPA monitoring does not indicate elevated concentrations of monitored compounds other than sulfur dioxide. Sulfur dioxide was again detected at concentrations of approximately 5 ppm directly in the source area. This level is at the 15 minute STEL concentration of NIOSH and the OSHA Permissible Exposure Limit. Downwind areas do not have this concentration.
- D. Site stabilization activities and containment of runoff waters continue to be conducted by Lewis Environmental under contract to the owner of the entire complex.
- E. OSC and PADEP completed development of an overall strategy to address future environmental needs of the Site during the likely upcoming demolition of the burned and

collapsed structures. PADEP onscene representative discussed the strategy with appropriate Departmental personnel. OSC and PADEP determine that debris at the Site has to be assessed and the areas segregated by potential waste stream (e.g., hazardous, construction/demolition, residual waste, asbestos-containing, PCB contaminated. Demolition operations must be conducted in a manner which maximizes environmental protection and environmental contractors need to ensure that releases are contained. OSC and PADEP met with the owner and requested the owner prepare a workplan to document how this future activity will be conducted. The owner agreed to prepare a workplan guiding future activities, the OSC and PADEP agreed to review the work plan, PADEP will approve and oversee its implementation.

II. Actions

- A. Command and safety meetings were conducted this period with EPA, Bridgeport Fire, Montgomery County Emergency Services, and Lewis Environmental. Safety concerns this period included increased presence of utility personnel, business owners and insurance personnel. USCG and EPA conducted safety briefings, escorted personnel, or otherwise ensured safety of persons from chemical hazards on site.
- B. The bermed area of the warehouse operations area was effectively minimizing runoff from entering the grates that enter the canal. A vacuum truck periodically removed pooled liquids.
- C. US Fish and Wildlife Service onsite this day. USFWS and OSC conducted an inspection of the River bank area. Observations of operational areas and shoreline conditions does not indicate that additional activity is necessary to protect wildlife.
- D. Vacuum truck removed pooled oily liquid from the Middle road area.
- E. Demolition contractors further assisted EPA in investigating possible entrance ways into the basement area of the chemical storage warehouse. An access hole was made in the floor of the warehouse along the northern wall. The hole opened into a small area likely used to convey piping (not full basement). The air space was saturated with carbon monoxide and no effort to enter at this location was made. Considering the entry difficulties, Bridgeport fire and Montgomery County Emergency Services continue to agree that entry to address lingering fire issues was also not appropriate at this time. Additional effort will be made as areas of the warehouse are cleared of chemicals so that EPA can determine if offsite drainage can be stopped.
- F. The basement of the J building continues to hold water, but it continues to slowly pass into drainage which apparently conveys the water to the River. The OSC is awaiting results of environmental sampling completed by Lewis Environmental.
- G. EPA, START, and USCG continue characterization of the overall Site in an effort to locate and evaluate possible areas of hazardous or oily materials within the debris and Site. The OSC is now preparing a record of these activities.

- H. A water main broke on Front Street this day reducing the ability to suppress dust emissions in the warehouse operational area. Operations continued in zinc sulphate area.
- The OSC and PADEP devised a strategy for addressing future Site issues and met with the owner of the business complex to determine his scope of future actions. OSC and PADEP informed that a workplan was necessary to document the overall plan for demolishing the structures without causing further releases to the environment and without mixing potentially separate waste streams (e.g., potentially hazardous vs. demolition debris). The owner agreed to prepare a work plan and is actively pursuing contractor support to address overall environmental and demolition issues. OSC and PADEP agreed to review and provide input into the development of this work plan. PADEP has agreed to take the lead on work plan approval and future supervision of its implementation.

III. Future Actions

- A. Evaluate possible entry/accessways into the basement area of the chemical storage warehouse to attempt to access, identify, and plug drains and address lingering fire issues.
- Continue to coordinate actions related to stabilization of the chemical warehouse location.
- C. Continue to coordinate with PADEP, Borough of Bridgeport and Montgomery County to meet unmet needs and ensure appropriate environmental protection strategy and Site safety.
- D. Coordinate actions for evaluating remaining areas of potential environmental concern in order to facilitate future demolition or re-entry into burned areas. Forward EPA assessment and evaluation work to Site owner and work with Site owner to finalize a work plan to address future environmental needs.
- E. Assist the owner to keep personnel expected to return to their business locations safe from the chemical warehouse stabilization operations. The OSC has instructed USCG to brief each of these entities about emergency evacuation procedures.
- F. Prepare plans for securing Site operations for upcoming holiday weekend.

POLREP 10
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. Situation (as of 1800 hrs. 24 May 01)

EVENT:

CERCLA Emergency Response

- A. The industrial complex is comprised of nearly 50 separate businesses housed in a former fibre manufacturing facility. Individual names of the current businesses and the name of the industrial park are not contained in this POLREP. Instead, general descriptive terminology and location information is used.
- B. EPA (and PADEP), Mongtomery County Emergency Services, and owner's contractor representative (Lewis Environmental) maintained Unified Command for environmental issues during this days operations. EPA coordinated all environmental issues with PADEP representative onsite. This days environmental operations included continued removal of oily material from the canal and River, continued stabilization of the chemical storage warehouse, and continued Site Safety. The OSC continued to direct that EPA assets (Atlantic Strike Team) assist the owner with safety of business owners and insurance personnel on Site this day. The operational period is 0700 through 1900; oil recovery operations continue 24 hours each day.
- C. EPA air monitoring conducted this day continues to indicate no concentrations of contaminants linked to the chemicals in the warehouse. Sulfur smelling emissions (Sulfur dioxide) continue to originate from within the basement of the warehouse area.
- D. Site stabilization activities and containment of runoff waters continue to be conducted by Lewis Environmental under contract to the owner of the entire complex. The owner is actively preparing a workplan and evaluating contractors for overall Site cleanup.
- E. The OSC will remain active in directing Site safety and stabilization activities until the warehouse chemicals are stabilized (removed from the warehouse area) and the remainder of Site operations are conducted under a work plan approved by PADEP.
- II. Actions
- A. Command and safety meetings were conducted this period with EPA, Bridgeport Fire, Montgomery County Emergency Services, and Lewis Environmental. Safety concerns this period continued to include increased presence of utility personnel, business owners and

insurance personnel. USCG and EPA conducted safety briefings, escorted personnel, or otherwise ensured safety of persons from chemical hazards on site. Additionally, as operations within the warehouse move forward towards Front Street, the exclusion area was moved toward Front Street as well expanding the exclusion area and further distancing the operational area from the public.

- B. Wet lead containing chemicals (lead chromate) existing on the floor of the operational area of the chemical storage warehouse was solidified and then removed to the staging area. The demolition contractor continued to remove structural hazards and facilitate chemical removal operations.
- C. The water main break on Front Street was determined to be in the private line serving the business complex. This information was brought to the Site owner. Dust suppression water lines were rerouted from other sources.
- D. Damaged plastic drums were removed from the M building area to the chemical staging area.
- E. Based upon discussions between the OSC, PADEP and the Site owner, it was agreed that stabilizing operations should begin in the oily area of M and C building where auto parts and related maintenance supplies (e.g., oils, cleaners, etc.) were stored. These areas continue to generate and discharge oil to the River (from C building area) and the canal (M building). Lewis Environmental began to remove oily debris from the M-19 building and place the debris into containers. Oily liquids pooled in this area were removed by vacuum truck.
- F. The gas company tested gas lines this day by pressurizing the system with air. A pipe near the operational area was not capped causing air to hiss and personnel to believe a gas leak was occurring. This resulted in an evacuation of the operational area and air monitoring.
- G. Two additional goslings were removed from oily areas and transported to Tri-State for rehabilitation. The OSC notified the Trustees.
- H. The basement of the J building continues to hold some water, but it continues to pass into drainage which apparently conveys the water to the River. Results of environmental sampling completed by Lewis Environmental indicate that the water contains some contaminants that can be related to the Site. PADEP and the OSC are now evaluating the need to stop this drainage. It is estimated, however, that most of this water has already leaked to the River in the past 24 hours as a blocked pipe has apparently unclogged.
- I. Results of runoff water sampling obtained by PADEP during the fire indicate contaminants similar to those identified by EPA. The runoff is characterized predominantly by MEK, acetone, napthalene, and petroleum hydrocarbons. Other organic compounds are also present at low concentrations. Some inorganic elements are also present in the EPA data, but it is unknown at this time if these elements are solely due to fire runoff. No evidence of aquatic impact is present at this time.

- J. EPA, START, and USCG continue characterization of the overall Site in an effort to locate and evaluate possible areas of hazardous or oily materials within the debris and Site. The OSC is now preparing a record of these activities.
- K. The owner is actively working on preparation of a work plan to address future environmental issues at the Site.

III. Future Actions

- A. Evaluate possible entry/accessways into the basement area of the chemical storage warehouse to attempt to access, identify, and plug drains and address lingering fire issues (smouldering wood in basement).
- B. Continue to coordinate actions related to stabilization of the chemical warehouse location.
- C. Continue to coordinate with PADEP, Borough of Bridgeport and Montgomery County to meet unmet needs and ensure appropriate environmental protection strategy and Site safety.
- D. Coordinate actions for evaluating remaining areas of potential environmental concern in order to facilitate future demolition or re-entry into burned areas. Forward EPA assessment and evaluation work to Site owner and work with Site owner to finalize a work plan to address future environmental needs.
- E. Assist the owner to keep personnel expected to return to their business locations safe from the chemical warehouse stabilization operations. The OSC has instructed USCG to brief each of these entities about emergency evacuation procedures.
- F. Prepare plans for securing Site operations for upcoming holiday weekend.
- G. Remove oily debris from area where geese have been identified.

POLREP 11
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. Situation (as of 1800 hrs. 25 May 01)

EVENT:

CERCLA Emergency Response

- A. The industrial complex is comprised of nearly 50 separate businesses housed in a former fibre manufacturing facility. Individual names of the current businesses and the name of the industrial park are not contained in this POLREP. Instead, general descriptive terminology and location information is used.
- B. EPA (and PADEP). Mongtomery County Emergency Services, and owner's contractor representatives (Lewis Environmental and Alpha Environemental) maintained Unified Command for environmental issues during this days operations. EPA coordinated all environmental issues with PADEP representative onsite. This days environmental operations included continued containment and removal of oily material from the canal and River, continued stabilization of the chemical storage warehouse, staging of oily debris located in M building, and continued Site Safety. The OSC continued to direct that EPA assets (Atlantic Strike Team) assist the owner with safety of business owners and insurance personnel on Site this day. The operational period this day is 0700 to 1700, but Site operations will begin to shut down around 1400 to ensure that the Site is secure.
- C. The Site will be secured for the upcoming holiday with temporary stop-gap measures and periodic monitoring and maintenance will ensue.
- D. EPA air monitoring conducted this day continues to indicate no concentrations of contaminants linked to the chemicals in the warehouse. Sulfur dioxide emissions continue to originate from within the chemical warehouse area.
- E. Site stabilization activities and containment of runoff waters continue to be conducted by Lewis Environmental under contract to the owner of the entire complex. The owner has requested that the OSC make requests for environmental actions to owner representative Alpha Environmental. The OSC agreed to this procedure, but requested that Alpha be on site at all times or that OSC continue to advise Lewis Environmental in the absence of Alpha Environmental. The owner is actively preparing a workplan and evaluating contractors for overall Site cleanup and gearing up to take over Site safety.
- F. The OSC will remain active in directing Site safety and stabilization activities until the

- warehouse chemicals are stabilized (removed from the warehouse area) and the remainder of Site operations are conducted under a work plan approved by PADEP.
- G. Based upon the covering of exposed oily and chemical materials, readiness of booms and absorbent material, and placement of plugs in identifiable MCC basement drains, the OSC determined that the Site operations could be minimized to maintenance and response status during the upcoming weekend. The installed stop-gap measures will provide temporary stabilization of chemicals and oily release. The Site will be monitored and the booms tended by Lewis Environmental contractors. The Site will be monitored and the air sampled by START contractor (Tetra Tech). The owner's environmental representative, the OSC, and Montgomery County Emergency Services will be contacted in the event of any changing situation at the Site. The OSC will notify PADEP. The owner is providing Site security.

II. Actions

- A. Command and safety meetings were conducted this period with EPA, Montgomery County Emergency Services, and Lewis Environmental. Owner representative Alpha Environmental also present at command meetings. Fire suppression operations are no longer occurring and Bridgeport fire is not a steady participant in command meetings. USCG and EPA conducted safety briefings, escorted personnel, or otherwise ensured safety of persons from chemical hazards on site.
- B. Environmental contractor (Lewis) continued to remove chemicals and debris from the chemical storage warehouse location of building M. Approximately 50% of the chemicals are estimated to be addressed at this time. Chemicals are placed in roll-off containers.
- C. START and OSC discussed the issue of Caprolactum being released into the environment as documented in the downstream water samples. Caprolactum is a very non-volatile semi-volatile and would only be present in the air as a particulate. There have been no significant elevated levels of particulates to date. Therefore it would be fair to assume that Caprolactum is not being released into the air in any significant quantity.
- D. Lewis continues to maintain boom in canal and Schuylkill River. Booms and absorbent pads are also maintained around drains on site. These booms are being tended today to prepare them for upcoming rain events. Oily debris in areas that could impact wildlife have been addressed.
- E. Stabilizing operations continued in the oily area of M building where auto parts and related maintenance supplies (e.g., oils, cleaners, etc.) were stored. This area continues to generate and discharge oil to the canal. Lewis Environmental continued to remove oily debris from the M-19 building and place the debris into containers. Oily liquids pooled in this area were removed by vacuum truck. The north end of building M-19 was diked to reduce runoff of oily material to nearby drains and inlets.
- F. Lewis covered debris and material with poly and anchored it down in preparation for weekend

shutdown.

- G. START continued onsite air monitoring. No levels above background were measured.
- H. EPA, START, and USCG continue characterization of the overall Site in an effort to locate and evaluate possible areas of hazardous or oily materials within the debris and Site. The OSC continues to add to the record of these activities.
- I. The owner is preparing a work plan to address future environmental issues at the Site.
- J. OSC requested USCG-AST to review contractors safety plan and evaluate whether the plan will cover overall site safety (i.e., safety of personnel not working in or immediately adjacent to the MCC or oil recovery work zones). At this time, the EPA Safety Plan is the plan for protecting all persons that are on Site including contractors, business persons, utility workers, etc., that are onsite and not involved in the stabilization or oil recovery operations. The OSC requested the owner to begin assumption of these responsibilities.
- USCG AST mobilized additional personnel to the Site to perform an entry into the basement K. . area of MCC warehousing, inc. located beneath the current operational area and believed to contain at least some drainage pathways into the canal. The level "B" entry was made after operations in MCC Warehouse ceased for the day and securing operations were initiated. The entry team found that a significant amount of liquids and solid material from the first (grade level) floor of the warehouse has fallen through to the basement through designed spaces (e.g., grates and drainage ways) and spaces resulting from the collapse of the structure (e.g., cracks). The contaminated materials have entered open top tanks located in the basement as well as spilled upon the floor. The air space above the open tanks exhibit elevated readings on the PID suggesting VOC contamination. The amount of the liquid and solid material is unknown. The integrity of the tanks and piping integrity is unknown. Liquids on the floor are able to migrate from the evaluated basement area through pipes and other spaces located at the base of the northern wall. The entry team was able to place wooden plugs into 2 of the pipes. Another area was draining water to a deeper pit (e.g., cistern), but the outlet could not be investigated due to deep liquid levels. The entry team was unable to find safe entry into other basement areas of the MCC warehouse area. Based upon information derived from the entry team, the OSC determines that the effort has reduced, but likely not eliminated liquid migration into the canal. Further investigation will be needed. The owner will be informed of this information on Tuesday.

III. Future Actions

- Continue to coordinate actions related to stabilization of the chemical warehouse location.
- B. Continue to coordinate with PADEP, Borough of Bridgeport and Montgomery County to meet unmet needs and ensure appropriate environmental protection strategy and Site safety.
- C. Coordinate actions for evaluating remaining areas of potential environmental concern in order

to facilitate future demolition or re-entry into burned areas. Forward EPA assessment and evaluation work to Site owner and work with Site owner to finalize a work plan to address future environmental needs.

- D. Assist the owner to keep personnel expected to return to their business locations safe from the chemical warehouse stabilization operations. The OSC has requested that the owner transition appropriate personnel to assume the role of Site Safety.
- E. Inform owner of conditions in basement area of chemical storage warehouse.
- F. Implement Site security and maintenance over holiday weekend. Site operations are expected to begin again Tuesday 29 May at 0700.

POLREP 12 Bridgeport Industrial Park Fire ER int. Front and Ford Sts. Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

SITUATION and ACTIONS (as of 1800 hrs. 28 May 01)

EVENT:

CERCLA Emergency Response

Oversight of PRP emergency stabilization activities without enforcement

instrument

Temporary stabilization period

- A. This POLREP covers the holiday period (1700 25 May 01 to 0700 29 May 01) during which routine Site operations were suspended and stop-gap measures installed 25 May were relied upon to temporarily stabilize the Site from chemical and oily material release. Contractors inspected the Site periodically during this period and informed appropriate personnel (EPA, Montgomery County, owner) of any suspect or release issues.
- B. The OSC was contacted by owner representative (Alpha Environmental) and environmental contractor (Lewis Environmental) 26 May 01 regarding the migration of runoff water into a grate over the canal on the west side of the chemical storage warehouse. The water exited the operational area, migrated through the staging area, and then entered a grate over the canal. The OSC advised to improve berms already constructed to prevent this occurrence. Heavy rains have overwhelmed this system. If actions are not successful, the OSC requested tanks and pumps to be mobilized to the Site. In an emergency situation, the OSC advised that excess water be pumped into the basement of the warehouse as a last resort. The OSC was called later in the day and informed that berm improvements were successful.
- C. The OSC was contacted by Montgomery County Emergency Services on 26 May 01 regarding increased smoke from the chemical warehouse. OSC and Montgomery County Emergency Services returned to the Site on 26 May 01 at 1730 hrs, to address an area of increased smoke emission from the chemical storage warehouse. The OSC was notified by Montgomery County Emergency Services that increased smoke was evident from the MCC Warehouse area during the afternoon. The OSC called the owner and advised to have demolition contractors on standby. The OSC notified PADEP. The OSC found that increased smoke was indeed evident and that the smoke was not attributable to heavy weather and rain keeping the smoke close to the ground. Closer inspection revealed that the smoke was emanating from a pile of debris that appeared to be on the floor of the warehouse. The OSC determined that the smoke needed to be addressed since it represented a new condition that could threaten increased fire in the chemical storage area and increased emission to the community. Rain prevented useful air monitoring, but sulfur dioxide was identified downwind in the rainy weather. The demolition operator used heavy equipment to remove debris and gain access to the smoking area. The OSC found that red and orange powders were smoking

and that open flame appeared when the debris was moved. The OSC requested that START contractor review available MSDS. MSDS indicated that some of the pigments expected in that area were flammable and emit sulfur dioxide in combustion. The OSC and Montgomery County Emergency Services set up a hose line to the smoking area. The OSC directed that the operator remove debris from smoking area and expose smouldering chemical. The chemical flared several times. Water dispersed the red powder, but did not extinguish flame. After applying water to cool the area and after exposing the chemical to the water for about 60 minutes, the fire was deemed to be out. Additional hot spots were noted in the nearby areas, but they were not actively smouldering and emitting increased smoke like the area addressed this night. OSC, START, and Montgomery County demobilized at about 2100 hrs.

- D. EPA air monitoring conducted this period continues to indicate no concentrations of contaminants linked to the chemicals in the warehouse, although rainy weather on 26 May limited the usefulness of the sampling.
- E. No command or safety meetings conducted this period.
- F. Heavy rains have caused the River level to rise significantly. Inspection of 28 May 01 revealed that a pole has dislodged one of the River booms. Strong current and high River levels have overwhelmed the booms.
- G. START reports that the amount of smoke visible from the chemical storage warehouse is significantly less than previous days
- II. FUTURE ACTIONS
- A. Remobilize full Site operations at 0700 hrs. 29 May 01

POLREP 13
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. SITUATION (as of 1900 hrs. 29 May 01)

EVENT:

CERCLA Emergency Response

Oversight of PRP emergency stabilization activities without enforcement

instrument

- A. The owner of the business park continues to conduct oil containment and recovery operations to address oily material that enters the Schuylkill River and a canal that runs under the business park. The amount of oily material that enters these waterways is significantly less than previous days. Heavy rains have washed much of the mobile material from the complex and Site operations have resulted in protective measures to prevent oily runoff outside of the complex where possible. Oily runoff continues to enter the canal through unknown pathways believed to be drainage ways serving the industrial facility formerly operating at this location.
- B. The owner of the business park continues to conduct stabilization activities in the chemical warehouse/storage area (and adjacent area of oil and automotive maintenance supply storage). The chemicals are removed from the burned and collapsed structure and placed into roll-off containers. Available inventory and MSDS allow segregation where possible, but many of the chemicals are mixed due to building collapse, burned containers, fire-fighting efforts, and significant precipitation events. The chemical warehouse is located over an area of the former fibre manufacturing facility that was constructed with a basement in which dozens of tanks, associated piping, and designed drainageways are/were located. The basement area drains through unknown pathways to the canal. EPA has been able to identify and plug at least two of these possible drainageways, but additional areas are expected based upon ongoing efforts to identify drains. At this time, the Site still allows potentially contaminated water to run uncontrolled into the canal or other unknown locations.
- C. Air monitoring parameters were reduced this day due to the near absence of smoke from the chemical warehouse area and numerous rounds of results which do not indicate release. Future monitoring will be limited to organic (PID) and particulate (RAM) monitoring. The OSC continues to work with the owner to transfer Site Safety responsibilities to the owner's representatives.
- D. The OSC continues to operate Unified Command with Montgomery County Emergency Services and owner's representatives. The OSC coordinates with PADEP. The USCG-AST and OSC function as Site Safety. Lewis Environmental is responsible for safety of their personnel in the work zones.

II. ACTIONS

- A. Safety meeting conducted at 0700. Command meeting conducted at 1600.
- B. OSC reviewed events of May 26th and indicated that caution should be exercised with smouldering chemical. Site should not be treated as only inorganic elements remaining since upcoming work areas have partial drums with material remaining within.
- C. OSC and START (tetra tech) review air monitoring data and modify future air monitoring to include organic vapor and particulate monitoring. Additional monitoring will be conducted on an as needed basis.
- D. USCG-AST and OSC advise Lewis Environmental that Level C respiratory protection should include combination cartridges for chemical protection in addition to dust protection.
- E. Lewis Environmental redeployed booms lost during weekend rain events. OSC discussed booms with PADEP and agree that three areas of booming are necessary. PADEP agreed to take the lead on boom strategy. Oily material containment and recovery continued this day. Pooled oily material was removed with a vacuum truck
- F. START (Tetra Tech) collected samples of canal discharge (near facility and in River) and a sample of water collected in a masonry tank beneath the operations area of the warehouse. Analytical results will characterize current discharge, quality at exit to River, and assist in determining urgency of completely blocking basement drainage.
- G. Lewis Environmental continued removal of chemicals from the warehouse and placing these chemicals in roll-off containers. Additionally, oily material from the auto supply storage location of M building continued to be removed this day.
- H. OSC and USCG-AST discuss transfer of Site Safety. OSC is prepared to transfer Site safety to owner representative Alpha Environmental when owner can assure that Site Safety plan addresses personnel other than environmental contractors onsite (Lewis Environmental work plan) and Site Safety plan includes air monitoring for organic vapors and particulates.
- Gas Company on Site this day to continue testing of lines and reconnection of unaffected businesses. Activity occurs in west end of Site.
- J. Tri-State Bird Rescue contacted OSC this day to inform that the 3 oiled goslings are fine. Requested contact with owner to discuss reimbursement and release of birds.
- K. Several insurance inspectors/investigators onsite this day. OSC and USCG monitored safety.
- START preparing maps of Site area and operations.

- M. OSC Towle and OSC Kelly completed environmental assessment of C buildings this day. This effort built upon effort begun by USCG-AST and START previously.
- N. At 1600 Command meeting, OSC advised owner to discuss booming strategy with PADEP to ensure that unnecessary boom or pads are not deployed.
- O. OSC, USCG-AST, and START entered the warehouse basement from the west end this evening to identify drainage pathways. The basement contains numerous masonry tanks with old valves and piping. Mixers, pumps, and other machinery are present. Gutters pass between some tanks to drain liquids. Water was observed migrating from somewhere beneath the operational area of the warehouse and it entered a sump and exited a pipe destined for unknown locations (canal?). This exit will be assessed tomorrow. The air space in the basement exhibited approximately 25 ppm on PID.

III. FUTURE ACTIONS

- A. Complete environmental assessment document that identifies observed and potential environmental issues in the burned buildings. This document will assist future demolition and cleanup operations.
- B. Inform owner of need to contact Tri-State Bird Rescue.
- C. Continue to evaluate drainage from the basement area of the chemical storage warehouse. Evaluate the need to collect sample of discharging water.
- D. Evaluate owner Site Safety Plan and transfer Site Safety Officer responsibility as appropriate.
- E. Evaluate owner Site work plan for longer-term demolition and cleanup operations.

POLREP 14
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. SITUATION (as of 1900 hrs. 30 May 01)

EVENT:

CERCLA Emergency Response

- A. The owner of the business park continues to conduct oil containment and recovery operations to address oily material that enters the Schuylkill River and a canal that runs under the business park. Oily runoff (mainly sheening with small discharges) continues to enter the canal through unknown pathways believed to be drainage ways serving the industrial facility formerly operating at this location. Discussions with PADEP have resulted in re-configuring booms to better match ongoing discharges of sheen and "burps" of oil. The linear feet of boom was reduced and the amount of pads have been reduced.
- B. The owner of the business park continues to conduct stabilization activities in the chemical warehouse/storage area (and adjacent area of oil and automotive maintenance supply storage). The chemicals are removed from the burned and collapsed structure and placed into roll-off containers. Available inventory and MSDS allow segregation where possible, but many of the chemicals are mixed due to building collapse, burned containers, fire-fighting efforts, and significant precipitation events. The chemical warehouse is located over an area of the former fibre manufacturing facility that was constructed with a basement in which dozens of tanks, associated piping, and designed drainageways are/were located. The basement area drains through unknown pathways to the canal.
- C. Efforts by OSC and USCG-AST to identify drains in the basement have revealed that the accessible basement area is a east-west trending corridor with at least five rectangular tanks along the south wall, pipe drainageways along the north wall and floor, and several sumps/pits with unknown exit points. The floor contains a large amount of chemical that has dropped through from the first floor (solid and liquid). Liquid exists in at least 3 tanks. The condition of the tanks and valves is unknown, but liquid is currently being held within. The condition of the area behind the south wall is unknown; an old print indicates that area contained "fibre tanks" and the owner has indicated that much of it was "backfilled" when the warehouse area was improved. The western edge of the basement area under the warehouse is accessible and it contains tanks, piping, gutter drains, sumps, and machinery. EPA will continue effort to determine if liquid in the footprint of the chemical warehouse can be contained/isolated from the canal and River.

- D. EPA has been able to identify and plug at least two possible drainageways in the basement area, but additional were found 29 and 30 May. USCG-AST entries have resulted in a sketch map that identifies known and potential drains from the basement area. The owner informs and OSC has observed that much of the basement area south and of the mapped area and the majority of the warehouse footprint was backfilled in the past. It is unknown if drains were removed or plugged or if chemical has dropped into these areas (the OSC has observed chemical entering the backfilled basement area at two locations thus far, most of the area is still covered by burned rubble and chemicals). The floor of the intact basement area contains trench gutters designed to convey liquids to sump areas with unknown exit locations.
- E. At this time, the Site still allows potentially contaminated water to run uncontrolled into the canal or other unknown locations.
- F. OSC and USCG-AST continue to work with owner representatives to transfer Site Safety responsibilities.

II. ACTIONS

- A. Operational period of the Site was reduced this day by owner. Work period is from 0800 to 1700. Safety and Command meetings conducted.
- B. START (tetra tech) continued air monitoring. START also working with OSC and owner to transfer air monitoring needs to owner.
- C. OSC forwarded information to owner regarding need to contact Tri-State Bird Rescue regarding 3 goslings from Site. The birds are doing fine.
- D. Additional dike/berm constructed along building C-111/C-101 area to prevent oily material in a former auto supply storage location from exiting the former building footprint during rain events.
- E. Lewis Environmental removed some boom and re-configured others to streamline oil collection and recovery areas. Lewis worked with PADEP regarding the deployment of boom. Lewis added additional boom further into River at owner request.
- F. Water company onsite today to try to shut water to M building. USCG-AST and OSC, during basement entry of 29 May, found that clean water was running through contaminated basement corridor and exiting through drain at northwest corner of chemical warehouse. The source of the water appeared to be a broken pipe along the south wall of the warehouse on the collapsed second floor. The water fell to the first floor and drained into the basement through holes in the floor. The water company successfully uncovered street valve and turned off water.
- G. OSC conducted preliminary environmental characterization of H building (old boiler house). The building is still intact but fire damaged. The building has numerous drums of unknown

materials and asbestos. Demolition contractors also onsite to evaluate requirements for demolition.

- H. Lewis Environmental continued to stabilize chemical warehouse area. Partially burned drums and containers were removed and overpacked or otherwise stabilized.
- OSC completed environmental assessment of C and H buildings. Documented results were forwarded to owner. No significant environmental issues were identified in J building. Portions of M building with environmental concern area subject of ongoing emergency stabilization actions.
- J. OSC determined that M building basement area needs environmental cleanup. OSC will forward request to owner.
- K. START (Tetra Tech) collected sample of basement water discharge location at northwest corner. The water originated as clean water along the south wall. The water ran down a corridor and entered a sump with a pipe at the base.
- L. USCG-AST entered the warehouse basement from the northeast corner this evening to evaluate condition of plugged holes, existing pooled liquid, liquid levels in tanks, and gather information to again determine how liquid exits the basement area. The wooden plugs set on the 25th of May were in good condition, but the pooled water identified on Friday 25 May was gone. The liquid appears to have drained out through a "sump" area between two rectangular masonry tanks. This area was under a sizable pool of liquid on the 25th. Effort will be needed to determine how liquid drains through the sump. Additional sumps/pits were identified; one passed liquid at the northwest corner. Air monitoring revealed low levels of organic compounds in the basement this day.

III. FUTURE ACTIONS

- A. Continue to evaluate drainage from the basement area of the chemical storage warehouse and efforts to plug drains or otherwise isolate the release to the canal/River.
- Evaluate need to remove liquid currently contained in basement tanks.
- C. Evaluate owner Site Safety Plan and transfer Site Safety Officer responsibility as appropriate.
- Evaluate owner Site work plan for longer-term demolition and cleanup operations.
- E. Meet with owner to discuss need for cleanup in basement area.

POLREP 15
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. SITUATION (as of 1900 hrs. 31 May 01)

EVENT:

CERCLA Emergency Response

Oversight of PRP emergency stabilization activities without enforcement instrument

- A. The owner of the business park continues to conduct oil containment and recovery operations to address oily material that enters the Schuylkill River and a canal that runs under the business park. At this time boom is deployed on the River as follows: 100 feet at canal discharge, 200 feet downstream at boat ramp, and three locations in the canal. Oily runoff (mainly sheening with small discharges) continues to enter the canal through unknown pathways believed to be drainage ways serving the industrial facility formerly operating at this location.
- B. The owner of the business park continues to conduct stabilization activities in the chemical warehouse/storage area (and adjacent area of oil and automotive maintenance supply storage). The chemicals are removed from the burned and collapsed structure and placed into roll-off containers. Available inventory and MSDS allow segregation where possible, but many of the chemicals are mixed due to building collapse, burned containers, fire-fighting efforts, and significant precipitation events. The chemical warehouse is located over an area of the former fibre manufacturing facility that was constructed with a basement in which dozens of tanks, associated piping, and designed drainageways are/were located. The basement area drains through pathways believed to lead to the canal.
- C. At the request of the OSC, Lewis Environmental conducted effort this day to remove contaminated liquids from the tanks in the basement. Liquids formerly pooled on the floor are gone and believed to have migrated through a sump area on the floor. The OSC also requested that sludge-like materials be removed from 2 identified sumps in an effort to determine how liquids may be exiting the basement area.
- D. At this time, the Site still allows potentially contaminated water to run uncontrolled into the canal or other unknown locations.
- E. OSC and USCG-AST continue to work with owner representatives to transfer Site Safety responsibilities. Owner representative Alpha Environmental initiated air sampling this day.
- II. ACTIONS

- A. Safety and Command meetings conducted.
- B. OSC requested a meeting with owner to transfer responsibility of Site Safety to the owner, deliver overall assessment document, inform owner of concerns about basement of chemical warehouse, and related matters.
- C. Lewis Environmental continues operations in the warehouse area. Approximately 75% of the warehouse footprint is completed. Remaining area is mix of large debris, small debris, and chemicals since the second floor is collapsed into the first floor. With dry weather, dust is becoming more of an issue. Water sprays are used to address this issue.
- D. Lewis used kiln dust to dry up large oily area of M building (Auto Supply storage). The area is known to exist over at least one hole that has allowed oily material to enter the basement area of the chemical storage warehouse. Additionally, a manhole in the building enables entrance into the canal. Todays efforts will begin to remove oily residual liquids from the building.
- E. OSC combined USCG-AST and OSC assessment products into one document. The assessment of the potential environmental or safety hazards will be forwarded to the owner.
- F. Lewis Environmental removed boom which is no longer needed from containment areas this day.
- G. OSC and USCG-AST discuss Site Safety and readiness of owner to assume this role. The OSC will inform the owner of SSHO requirements and pertinent OSHA requirements. Plans in place provide for suitable monitoring to protect nearby community. Safety Plan document and qualifications of personnel need to be resolved.
- H. OSC requested owner to remove liquids in tanks in the M building basement area investigated by USCG-AST. Lewis Environmental mobilized vacuum truck and has begun to remove liquids from the tanks.
- I. OSC requested owner to remove debris/sludge from 2 identified sumps. Based upon patterns of retreating water and observations of water flow, these sumps play in role in liquid migration from the basement. Lewis used the vacuum truck this day to remove pumpable liquids/sludges from one of the sumps.

III. FUTURE ACTIONS

- A. Continue to evaluate drainage from the basement area of the chemical storage warehouse and efforts to plug drains or otherwise isolate the release to the canal/River.
- B. Evaluate owner Site Safety Plan and transfer Site Safety Officer responsibility as appropriate.

- C. Evaluate owner Site work plan for longer-term demolition and cleanup operations.
- D. Meet with owner to discuss need for cleanup in basement area.

Michael Towle, OSC EPA Region III Philadelphia, PA 19103 POLREP 16
Bridgeport Industrial Park Fire ER
int. Front and Ford Sts.
Bridgeport, Montgomery County, PA 19405

ATTN:

RRC

C. Kleeman

I. SITUATION (as of 1900 hrs. 01 June 01)

EVENT:

CERCLA Emergency Response

Oversight of PRP emergency stabilization activities without enforcement instrument

- A. The OSC determined that the emergency response phase of this incident is over thus ending the full time involvement of the federal OSC and the OSC's assets. Site responsibility for cleanup and Site Safety have been turned over to the owner. The OSC has made this determination after significant federal and State efforts have resulted in the installation of containment devices, processes, and actions that have resulted in the minimization of off-Site releases of oily material and hazardous substances. Although significant cleanup work remains to be implemented, the owner has agreed to accomplish this work under a work plan to be approved by the State of Pennsylvania. The OSC will remain involved in this process to ensure that upcoming work does not result in a release to the environment. At this time, the Site poses a threat to human health and the environment. The OSC will prepare an endangerment determination and prepare to monitor upcoming cleanup efforts and be ready to implement additional controls necessary to protect human health and the environment.
- B. The OSC has directed that all identified drains or pipes in the basement of the chemical storage warehouse be plugged or cemented shut. The five pipes or drains suspected to or identified as enabling the migration of liquids from the basement to the canal or other unknown locations have been plugged or cemented shut. The basement should contain the liquids generated by rain events. The OSC has requested that the environmental contractor maintain watch over these liquid levels and ensure that increased liquid levels do not find additional unidentified exit points in the basement area.
- C. The OSC and PADEP have met with the owner of the business complex and again advised the owner of his responsibility to continue to conduct environmental cleanup actions. PADEP and the OSC have previously requested that work be conducted pursuant to a work plan to be submitted to and approved by PADEP (the OSC will also review). The owner has been advised that EPA will stay involved to ensure that upcoming work efforts do not pose additional threat to the environment. The owner has agreed to conduct environmental work. The OSC has forwarded all environmental information generated by EPA during response efforts of the past 15 days.
- D. PADEP and the OSC are comfortable that ongoing efforts, as conducted, and containment devices will protect the environment from ongoing or potential releases from the fire scene.

II. ACTIONS

- A. Safety and Command meetings conducted. At the end of the day a final meeting was conducted to inform all contractor personnel of the Site status, the government's expectation of continued work, and the transfer of Site Safety to the owner. The OSC and PADEP will continue to monitor cleanup efforts and expect a work plan for upcoming efforts in the near future.
- B. OSC and PADEP held a meeting with owner to transfer responsibility of Site Safety to the owner, deliver overall assessment document, inform owner of concerns about basement of chemical warehouse, and related matters. The owner was informed of his responsibilities to continue cleanup in a manner that does not pose a threat to human health and the environment.
- C. Lewis Environmental continues operations in the warehouse area. Approximately 80% of the warehouse footprint is completed. Remaining area is mix of large debris, small debris, and chemicals, primarily inorganic pigments. Water sprays are used to lessen dust releases.
- D. Site owner contractor Alpha Environmental conducts air monitoring. Monitoring results do not indicate increased releases from the Site; although dry kiln dust is migrating in wind gusts.
- E. OSC forwarded a Post-Fire Incident Assessment document to the owner. The document identified areas of environmental concern identified by the OSC and USCG-AST during inspections of buildings. The document contained some recommendations for cleanup strategy.
- F. OSC transferred Site Safety responsibility to the owner. The OSC also gave the owner a memo identifying the OSCs air monitoring and safety role. The OSC also forwarded portions of 29 CFR 1910.120 regarding the need for a safety plan and qualified safety officer.
- G. Lewis Environmental continued to removed liquids from tanks in the basement of the chemical storage warehouse.
- H. The OSC directed that sludge and liquids be removed from the sump identified in the basement. One of the sumps originally was under a large pool of contaminated water. Once cleaned, the sump had 2 pipes that had allowed water to pass from the basement area. These pipes were plugged. Another sump also had a pipe that passed water; the pipe was plugged. USCG-AST inspected these pipes and plugs at the end of the day and reported that each of the identified pipes in the basement area that did or may have passed water from the basement area have been plugged.
- I. The OSC requested that owner maintain inspection of the liquid levels in the basement. Allowing the liquid level to rise could cause release from a yet identified area. Most of the remainder of the basement is inaccessible since it was backfilled by the owner.

J. At the end of the day, the OSC deemed that the emergency response phase of the incident was over since the owner was actively stabilizing the warehouse area (remaining chemicals pose reduced threat, the owner was actively removing oily debris from areas known to drain into the canal, the owner was maintaining oily material containment and recovery responsibilities, and identified drain pipes from the warehouse basement have been plugged. Although additional cleanup activities remain, these activities will be conducted by the owner with monitoring from OSC and PADEP.

III. FUTURE ACTIONS

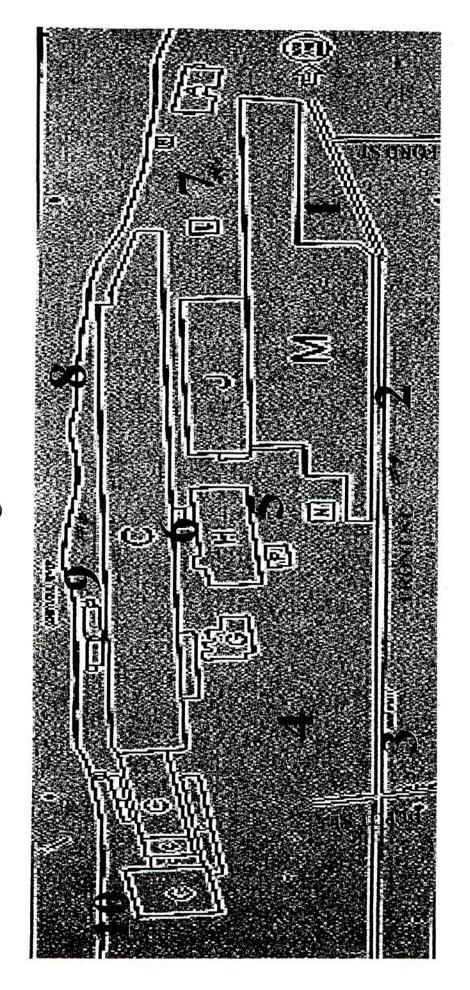
- A. Evaluate owner Site work plan for longer-term demolition and cleanup operations. Assist PADEP with review and initial monitoring efforts.
- B. Prepare an endangerment determination to ensure that EPA is ready to respond should the owner discontinue ongoing cleanup efforts.

Michael Towle, OSC EPA Region III Philadelphia, PA 19103

APPENDIX 12

AIR MONITORING LOG (with station location figure)

CONTINENTAL BUSINESS COMPLEX Air Monitoring Locations



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			BF	NDGEPO	BRIDGEPORT FIRE AIR MONITORING LOG	ONITORING LO		
				UPI	UPDATED: 5/19/01 at 1050	1050		
STATION	DATE	TIME			AIR MONITORING INSTRUMENT USED	STRUMENT USED		
LOCATION	10g 71.2c		FID (ppm)	PID (ppm)	HCN MONOTOX (ppm)	DETECTOR TUBES	TUBES	Notes
-	10/2//2					Type(s)	Result	Co-COMPANIES
6-1	10//1/6	1330 - 1405	0	0	0	Amines, HCl	Non detect	
1-7	5/17/01	1830 - 1910	0	0	0	None	10000	
1 - 10	5/18/01	1410-1445	0	0	0	Acids, amines	Non detect	
1 - 10	5/18/01	1530 - 1610	0	0	0	Acids amines	Non detect	
1-5	5/18/01	1745 - 1845	0	0	0	Acids amines	Non detect	
6-7	5/18/01	1745 - 1845	0	5.1	0	Acids amines	Non detect	
8 - 10	5/18/01	1745 - 1845	0	0	0	Acids amines	Non detect	
1 - 10	10/61/9	0715 - 0750	0	0	0	Acids amines	Non dates	
						reigs, annues	Daily detect	
1 - 10	5/19/01	0945 - 1030	0	0	0	Acids, amines	Non detect	Rad survey conducted. No levels
9-1	5/19/01	1140 - 1215	0	0	0	Acids, amines	Non detect	
7	5/19/01	1140 - 1215	1.9	0	0	Acids, amines	Non detect	
8 -10	10/61/9	1140 - 1215	0	0	0	Acids, amines	Non detect	
1-5	10/61/9	1445-1430	0	0	0	Acids, amines	Non detect	
1-10	5/19/01	1610-1700	0	0	0	Acids, amines	Non detect	
1-10	10/61/9	1745-1815	0	0	0	Acids, amines	Non detect	
1 - 10	5/20/01	0825 - 0850	0	0	0	Acids, amines	Non detect	
FID. Flame Ionization Datactor for and	Stanfood Contract	Con Con and and and					יייין מפופפו	

FID- Flame Ionization Detector for organic compounds
PID- Photo Ionization Detector for inorganic or organic compounds
HCN Monotox- Hydrogen Cyanide Gas
Detector Tubes- Chemical Specific for organic compounds (1 e. amines, ammonia, hydrochloric acid, cyanide)

		٠	Notes		air monitored for vinyl chloride at station 2, results were less than 0	ррт.		Air monitored for sulphur dioxide,	MIBK, formaldehyde, vinyl chloride, and at smoke plume	onsite, downwind and	background Sulphur dioxide was	slightly elevated directly at smoke	plume at 3-4 ppm.									
90			TUBES Result	Non detect		Non detect																
BRIDGEPORT FIRE AIR MONITORING LOG	. 1630	TRUMENT USED	DETECTOR TUBES Type(s) R	Acids, amines		Acids, amines, HCL	Acids, amines							NA	NA	NA	NA					
RE AIR MO	UPDATED 5/24/01 AT 1630	AIR MONITORING INSTRUMENT USED	HCN MONOTO	0		0	0							0	0	0	0					
ORT FIR	UPDATE	AIR	PID (ppm)	0		0	0							0	0	0	0					
BRIDGE			FID (ppm)	0		0	0						8	0	0	0	0					
		TIME		0830-0915		1030-1115	1430-1530						1100-1300	1030-1115	1300-1400	1515-1600	0800-0845					
		DATE		5/20/01		5/20/01							5/23/01	5/24/01	5/24/01	5/24/01	5/25/01					
		STATION	LOCATION	1-10		1-10								1-7	1-7	1-7	1-7					

FID- Flame Ionization Detector for organic compounds
PID- Photo Ionization Detector for inorganic or organic compounds
HCN Monotox- Hydrogen Cyanide Gas
Detector Tubes- Chemical Specific for organic compounds (1 e. amines, ammonia, hydrochloric acid, cyanide)

Bridgeport Fire Dust Monitoring Log

Staion	PDR#	Date	Ti	me	PDF	Reading	(mg/m^3)
Location			Start	Logged	TWA	Maximun	
2	6	5/19/2001	922	1130	0.197	2.548	0.33
7	5	5/19/2001	913	1115	0.014	2.17	0.108
8	4	5/19/2001	915	1145	0.066	1.038	0.25
2	6	5/19/2001	922	1405	0.165	2.548	0.333
7	5	5/19/2001	913	1350	0.001	2.989	0.131
8	4	5/19/2001	915	1455	0.051	1.038	0.25
2	6	5/19/2001	922	1612	0.121	2.548	0.33
7	5	5/19/2001	913	1646	0.022	2.989	0.203
8	4	5/19/2001	915	1625	0.051	1.199	0.25
2	6	5/20/2001	832	1030	0.147	0.98	0.2
7	5	5/20/2001	819	1030	0.016	0.163	0.021
8.	4	5/20/2001	845	1030	0.054	0.86	0.107
2	6	5/20/2001	832	1434	0.118	0.98	0.21
7	5	5/20/2001	819	1510	0.018	0.163	0.031
8	4	5/20/2001	845	1530	0.05	1.201	0.138
2	6	5/20/2001	832	0	0.118	0.98	0.21
7	5	5/20/2001	819	0	0.018	0.163	0.031
8	4	5/20/2001	845		0.05	1.201	0.138

			_				

PDR - personal data ram, measures particulate matter in air

STEL - short term exposure level

TWA - time weighted average

APPENDIX 13

TABLE OF MCC WAREHOUSE INVENTORY CHEMICALS AND DECOMPOSITION PRODUCTS

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BRIDGEPORT FIRE ER

Chemical Inventory & Decomposition Products for Materials Previously Stored at the MCC Warehousing Inc Facility (Building M)

Chemical ID	Ingredients	Decomposition Products
Pentachem		
Beckosol AA-141	Alkyd resin Mineral spirits Xylene Ethyl Benzene Toluene	Carbon monoxide Toxic vapors
B.O.N. Rubine	CI Pigment Red	Toxic gases including oxides of carbon and/or nitrogen
Cyasorb UV-3853S Light Stabilizer		Carbon monoxide, carbon dioxide oxides of nitrogen
SICO Yellow NBD 1360	Aluminum silicate hydrated CI Pigment yellow 14 surfactant	Colored monazo dyes 3,3-dichlorobenzidine
SICOTAN Yellow L 1012	CI Pigment yellow 53 Nickel Antimony Aluminum monohydrogen phosphate Bis(3-aminopropyl)ethylenediamine	None listed on MSDS
SICOTRANS Red L 2917	Pigment (ferric oxide)	None listed
Aerosol C-61 surfactant	Isopropanol Octadecylamine-octadecylguanadine polyoxyethanol Ethylene glycol	Carbon monoxide Carbon dioxide Ammonia Hydrogen cyanide Oxides of nitrogen
3-amino-4methoxy- benzanilide	None listed in MSDS	None listed in MSDS
Barium lithol	CI pigment red Barium salt Petroleum hydrocarbon resin Petroleum distillates	Carbon monoxide Carbon dioxide Nitrous oxides chlorides
Paliogen Red L3675	Red pigment Nickel	Carbon monoxide Carbon dioxide Nitrous oxides
Paliotol Black L0080	CI Pigment black Barium sulfate Chromium VI	Carbon monoxide Carbon dioxide Nitrous oxides
Permanent red 2B	CI Pigment red	Toxic vapors Oxides of nitrogen and carbon
Phthalo blue	Copper Zirconium oxide Pigment	Carbon monoxide Carbon dioxide Nitrous oxides
Quindo Red	Barium sulfate Neodecanoic acid	Carbon monoxide Carbon dioxide Oxides of nitrogen
Quindo violet	Barium sulfate	Carbon monoxide Carbon dioxide Nitrous oxides
Rhodamine B PMA	CI pigment violet	Oxides of carbon and nitrogen Toxic gases and vapors

Rhodamine YS SMA	CI pigment red Kaolin clay	Carbon monoxide Carbon dioxide Nitrous oxides
RLC (Red Lake C)	CI pigment red	Carbon monoxide Carbon dioxide Nitrous oxides
Lithol fast scarlet L4300	CI pigment red Manganese pigment Barium sulfate Sulfurized castor oil Titanium dioxide	Carbon monoxide Carbon dioxide Nitrous oxides
Lithol Rubine D4566 DD	Kaolin CI pigment red Calcium resinate	None listed in MSDS
Luwax 9675 wax powder	1-propene homopolymer	None listed in MSDS
Micronal B50	Formaldehyde Diethanolamine Ammonium formate Melamine-formaldehyde copolymer Diisopropyl-naphthalene Petroleum distillates	Formaldehyde Carbon monoxide Carbon dioxide
SICO fast orange NB D 2851	pigment	Colored azo dyes 3,3-dichlorobenzidine
SICO red NBL 3751	CI pigment red Sulfonated castor oil Sodium salt 2-naphthalenol	Carbon monoxide Carbon dioxide Nitrous oxides
SICOPAL brown K2795	pigment	None listed in MSDS
SICOPAL yellow L1112	Cerium oxide Bismuth molybdate Bismuth vanadate molybdenum	None listed in MSDS
SICOPLAST red NB 36- 0330	CI pigment yellow Nickel Antimony Orange pigment	None listed in MSDS
SICOTAN yellow K2001 FG	CI pigment brown Chromium III antimony	None listed in MSDS
SICOTRANS yellow L1916	CI pigment yellow	None listed in MSDS
Bruggeman		
Bruggolen C10	Caprolactam Caprolactam sodium salt	Hydrogen cyanide Carbon monoxide Carbon dioxide Oxides of nitrogen
Bruggolen C20	Caprolactam Caprolactam hexanediisocyanate prepolymer Hexamethylene-1,6-diisocyanate	Hydrogen cyanide Carbon monoxide Carbon dioxide Oxides of nitrogen
Bruggelen P22 F	Polyamide Amorphous alumina silicate	Ethylenediamine Carbon monoxide Carbon dioxide Oxides of nitrogen Oxalic acid

Bruggolite E01 Powder	Methanesulfinic acid, hydroxy sodium salt	Carbon monoxide Carbon dioxide
	Sodium carbonate formaldehyde	Oxides of sulfur
Zinc carbonate AC 45	Zinc oxide	Carbon monoxide
	Zinc carbonate	Carbon dioxide
	Zinc hydroxide	Oxides of zinc
Bruggolen H20	N,n-diphenyl-1,4-phenylenediamine	Hydrogen cyanide
	Quinoline based polymer	Carbon monoxide
		Carbon dioxide
		Oxides of nitrogen & phosphorous
Bruggolen H21	Quinoline based polymer	Hydrogen cyanide
	Phosphoric acid, salt	Carbon monoxide
	⁵²	Carbon dioxide
		Oxides of nitrogen & phosphorous
Bruggolen H320	Potassium bromide	Carbon monoxide
	Potassium halogenide	Carbon dioxide
	Cuprous iodide	Oxides of copper
	Fatty acid derivatives	Iodine
	100V	Hydrogen iodide
Bruggolen L20	Ester	Oxides of nitrogen
	Phosphite derivative	Cyanides
	950 F. S2040A WBAA 30	Phosphoric & sulfuric compounds
		Carbon monoxide
		Carbon dioxide
Bruggolen C20 P	Caprolactam	Hydrogen cyanide
	Caprolactam hexanediisocyanate	Carbon monoxide
	prepolymer	Carbon dioxide
	Hexamethylene-1,6-diisocyanate (HDI)	Oxides of nitrogen
Bruggolen C230	Aliphatic polyisocyanate	Hydrogen cyanide
	1-methyl-2-pyrrolidinone	Carbon monoxide
	Hexamethylene-1,6-diisocyanate (HDI)	Carbon dioxide
		Oxides of nitrogen
		Traces of HDI
Bruggolen C540	polyamine	Carbon monoxide
	54 - 0.000	Carbon dioxide
		Oxides of nitrogen
Bruggolite FF6	Sodium salts of sulfur-oxy acetic acids	Carbon monoxide
	Sodium sulfite	Carbon dioxide
	water	Oxides of sulfur
Bruggolen H10	Phosphonic acid	Oxides of phosphorous
	Disodium salt	
Bruggolen H321	Potassium bromide	Carbon monoxide
V-7-20	Potassium halogenide	Carbon dioxide
	Cuprous iodide	Iodine
	Fatty acid derivatives	Hydrogen iodide
	99	Oxides of copper
Bruggolen H3346	Waxes	Carbon monoxide
	Copper and halogen compounds	Carbon dioxide
	AND STATE OF THE S	Oxides of nitrogen, phosphorous,
		and copper
Bruggolen M10	Carboxylic acid derivative	Carbon monoxide
And the second s	Silicon dioxide	Carbon dioxide
	Hexanedioic acid	
	Bis(2-ethylhexyl) ester	

Bruggolen P31	Fatty acid derivative Polymer Amorphous alumina silicate	Carbon monoxide Carbon dioxide Oxides of nitrogen and phosphorous Cyanides phosphines
Bruggolite E01 Granules	Hydroxy-methanesulfinic acid Sodium salt Sodium carbonate formaldehyde	Carbon monoxide Carbon dioxide Oxides of sulfur
Zinc oxide AC 100	Zinc oxide	Oxides of zinc
Zinc oxide RAC	Zinc oxide Lead sulfide	Oxides of zinc, lead, and sulfur
Energy Tech		r return to the second
Super ceramic repair putty hardener	Phenol Triethylenetetramine Formaldehyde polymer with phenol and TETA	Organic amines Ammonia Oxides of carbon and nitrogen
Chockfast blue hardener	Triethylenetetramine Tetraethylenepentamine Bisphenol A Amidoamines	Oxides of carbon Oxides on nitrogen Ammonia
Duraseal 6000 hardener	Diethylene triamine (DETA) 4,4-(1-methylethylidene) bisphenol modified aliphatic polyamine propylene glycol monomethyl ether isopropyl alcohol methyl isobutyl ketone toluene	Carbon dioxide Carbon monoxide Oxides of nitrogen
Acid resistant trowelable floor resurfacer hardener	Benzyl alcohol Isophorone diamine Salicylic acid	Ammonia Oxides of nitrogen Oxides of carbon
Phillyclad 200 deck gray aggregate	Iron aluminum silicate Carbon black Aluminum trihydrate Calcium carbonate	None listed in MSDS
Phillyclad 200 resin	Ethyl benzene Toluene Xylene Toluene-1,3-diisocyanate Urethane polymer	Oxides of carbon Oxides nitrogen Hydrogen cyanide Volatilized isocyanates
Phillyclad 2001 deck gray resin	Propylene glycol monomethyl ether Methyl isobutyl ketone Xylene Carbon black Crystalline silica Polymers of epoxy resin Bisphenol A diglycidyl ether resin Phenol, polymer with formaldehyde, glycidyl ether Acrylic acid, 2-ethoxyethanol diester Light aromatic naphtha 1,2,4-trimethyl benzene blocked polyisocyanate	Carbon monoxide Carbon dioxide Other toxic gases

PRT -60 Solvent	Methyl isobutyl ketone toluene	Carbon monoxide Carbon dioxide
Super ceramic repair liquid color additive	Diacetone alcohol Carbon black	Carbon monoxide Carbon dioxide
		Other organic vapors
Durr		
Lead chromate pigment/molybdate orange	Lead chromate Lead sulfate Molybdenum compounds Chromium Antimony trioxide	Oxides of lead, chromium, & antimony
Hansa yellow	None listed	Oxides of nitrogen and carbon
Butrol 23	Zinc oxide Barium metaborate monohydrate	Solubilized barium salts
Busperse 47	proprietary	Oxides of carbon & nitrogen
Busan 1078	2-methyl-4-isothiazolin-3-one 5-chloro-2-methyl-4-isothiazolin-3-one magnesium nitrate	Sulfur dioxide Hydrogen chloride Oxides of nitrogen
Busan 11-M2	Barium metaborate monohydrate	Solubilized barium salts
Busan 11-M1	Barium metaborate monohydrate	Solubilized barium salts
Busan 1025	2-(thiocyanomethylthio)benzothiazole methylene bis(thiocyanate) aromatic solvent n-methyl-2-pyrrolidone naphthalene	Cyanide salts Hydrogen cyanide Sulfur dioxide Oxides of sulfur, nitrogen, and carbon
Busan 1024	Formaldehyde 1-methyl-3,5,7-triaza-1- azoniatricyclodecane chloride	Oxides of carbon and nitrogen Hydrogen chloride Ammonia Methylamine Dimethylamine Trimethylamine
Bulab flamebloc 428	particulates	Carbon monoxide Carbon dioxide
Sachtolith	Zinc sulfide	Hydrogen sulfide
Kemira	Titanium dioxide Aluminum hydroxide Amorphous silica Amorphous zirconium dioxide	None listed in MSDS
Blanc-fixe	Barium sulfate	Sulfur dioxide Sulfur trioxide Barium sulfate
Yellow T.Y.	None listed in MSDS	Oxides of nitrogen and carbon Organic vapors
Bon Maroon	Manganese compounds	Carbon monoxide Carbon dioxide Oxides of nitrogen
Toluidine red	None listed in MSDS	Carbon monoxide Carbon dioxide Oxides of nitrogen
Pyrazolone orange	None listed in MSDS	Carbon monoxide Carbon dioxide Oxides of nitrogen

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		er.	

APPENDIX 14

NOTES OF OWNER ENVIRONMENTAL FILES

Summary Notes for Review of File Information Mainteened by Bushor Corp. @ Corthadal Business Contr (21 May 2001) * Sept Oct 1999 Received face bids Chiphy

[MI American Eagle, (b) (4) G10.430.6294,

(TIER DE, Me Inc. (b) (4) 610.873.2488

for removal of (3) 25, 000 gallon sodium

by discride tanks. I good personal, claim so

Alpha Environ ((b) (4) G10.892-7714)

rec ommended All American

o May 11, 1993 - Letter from Waste Consulling and

Brokenge Formores (1 (b) (4) -, Gto 215 628.0.

transforms oil feat reports negative for

A was non-haz. Bid to dispose of it

letter same date a sender as a true

hid to remove sulfaire acid so lide Changs

waste doesn't contain Roll reg.

solvents, "California last halogenation

organic carbos at como greater than

1,000 pm

19984 Applied Health Physics removed 12 Bets Lay Sheet Weight Profiles

(800 - 222- 1048) CF yards Acres 1emoved sent to wetzel County Land Hill

incices her Term Enrice. For a sodium,
hydreride spill

- Term En ((b) (4) (10) (47-1300)

preposal for remember tenks from
had caustics

- 7/30/27 that results of unknown ligery

pott 12

preposal for results of unknown ligery

pott 12

preposal for results of unknown ligery

. 10/11/90 Analy results for 3 drums found along

o 10/6/94 Cert that 26.33 tons of non-haz petroleum cent seid destress Dug up during pipe trench tound three drums o dug them y lone had high levels of benzen

- Alpha Environmental Ivr. (60) 932-0711 (ZIS) 984- ZIZIE (piger) P.O. BOX 44 Northryton, P.A 19362-0046

Front SI tones (horizotten correspondere)

- a closest to street 13 had and while crystals (small like termadenyde)
- (2) small ant. liquid may be wester
- (3) Yy in Fran liquid

3/31/95

Bld, B - Consell (know) - & 200 st. of 4" or ks (Aspestos)

correst.

C-123 - Shihaden Inc (text) 35 ft. Overtaid overs

C-127 - MCC, Inc. (terms) 80%. overtend ovens

- ??? 400 H. Various Pipes Blog. H

J-119 - Chain Mar Furnisture 123.4. Ape

Mt-15 125 A. 6" pipe - Busement

7. 7. 7. ? ? 650 to vancus pige M-135

1,293 ft. M-235

120 14. "

M-255 -

50 H. " m-335

100 th. pipe MBiba.B- Susement

December 21, 1992 - Environmental Six to sesement conducted by Environmental Hazaris Environi, Ir. 2316 Meethoperse 20 300thwfn, PA 19001 (215) 485- 450

- 25 acres (13 buildings (light menufactury, wathousing, & offices) - famery used for mfg. industrial gastets - aured by Build Company

Acm

M 335

m Blig B

38, 3 200 lover ft. C115 40 40 " C123 plus cons 300 " " plus cos C127 400 " Bibg H J119 123 650 5217 J301 1135 312, Jacsemant 250 M.1 to M-15 Degenert 125 " 4 564 " " MOI 1,000 " M135 76c " " MZOI 1,293 "" m235 MZ55 120

100

010 Bow Ho-4 3,000""

PCB3 - report re-courts more present (all < 50ppm)

\$ usts - rure identities

ASTS

(1) sulfaire actid crystels (was builgrenessed)

@ 100,000 gal AST - = 60.1

(3) 3,000-gall AST - hodered resin

Used Formalletyde Form Insulation - none : Seat fill dead Based Part - none identified

othericals

C-241 sted - c, cylinders, diesel, peoche, a acotylere C-127 (mcl) - drams

DAS Environmental, Inc.

2516 East Unterno St.

Phile, PA 19134

(215) 739-3445

10/24/88 1/2012 for "asbestes abstract wint" in J-10/ & J-201

musice to corporates abatement (N C-101, C-111, C-146, C-198, C-221, C-241

12/2/84 Musice m (-22/

in C-145 though C-179

7/21/91 manifest

Zyó sten renord from mec & label Risk

6/30/95 mucia for TXD or PCB capacites (>500ppm)

October 23, 1996

manifests & CD, for:

2 soms

2000 NCOH (2/8/96)

19 onms NCOH (115/96)

also reterences formulacity de tanks as howty brancone by Environmental Disposet options (Eto) Coop a same three as Nach, but not listed an meritants

PA Dep. or Enur Reserves (RRI)

Preliminary Assessment for Reclametrian Resources PA = 0449

tomes terent

- RRI - ~ 1976-1981

- used sit his drun storage

-druns removed in 81 with well

- curtius in was bldg had been choose it no truster hoseows!

July 18 1988 - DAS Entramental Inc. (correspondence)

DAS has respected to spill on July 15, 1968 - spill occurred during

excavation for secret line - "for-like substance leaving onto grand"

excavated ~ ZU forms - sample - found to be "ignitiable" of aloc

contained Acom

1/12/96 monitest for T&D or 3 drums tormaldedyde

December 91

tank studge from C-198 - lab bata stows as non-haz.

11/29/93 musice tex disposal & analytical for tank & milos entrance (vac truck ops) - 300 galls, tone was 4' diam. of 13' length

9/93 invoice for "cleany a 100,000 gell # 6 oil tonk in prop Enscripping"
4/94 Shows charges for TAD at tonk bottoms/solids

April 25, 1994 "neintest" for:

7 drams waste sulture and solid

Z domo " " weshwater

5/29/84

Blog 3 transferrer dota = run-PC3

APPENDIX 15

PHOTODOCUMENTS

- Contained in EPA Site File -